

***Environmental and
Operational Mid-Year Data
Report for the OU 7-08
Organic Contamination
in the Vadose Zone
Project – 2004***

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A. Jeff Sondrup

**Idaho
Completion
Project**

Bechtel BWXT Idaho, LLC

September 2004

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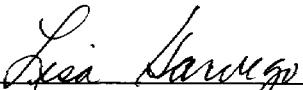
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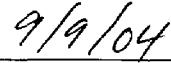
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September 2004

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ABSTRACT

Since January 1996, Operable Unit 7-08 has been using soil vapor extraction to remove organic contamination from the vadose zone outside the disposal pits and trenches in and around the Subsurface Disposal Area within the Radioactive Waste Management Complex at the Idaho National Engineering and Environmental Laboratory. The vadose zone contains volatile organic compounds, primarily in the form of organic vapors that have migrated from buried waste in the pits and trenches.

This report documents the operational and monitoring data for Operable Unit 7-08 recorded between January 1 and June 30, 2004. During that time, approximately 9,700 kg (21,000 lb) of total volatile organic compounds were removed from the vadose zone and oxidized through catalytic processes. Vapor vacuum extraction with treatment Units D, E, and F removed approximately 2,000 kg (4,500 lb), 3,200 kg (7,000 lb), and 4,500 kg (9,900 lb), respectively.

Carbon tetrachloride is the largest contributor to the volatile organic compound mass removal, representing over half of the total volatile organic compounds for this operating cycle. Isoconcentration plots of current CCl_4 vapor data, at approximately 21 m (70 ft) deep, indicate an overall decrease in the areal extent of the plume when compared to data taken before operations at the same depth. Increased levels of CCl_4 during late 2003 and early 2004 are likely the result of a rebound response when Units A and B were shutdown. While these rebounds were some of the highest observed since operations began, the concentrations decreased soon after Units E and F were started.

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ACRONYMS

ARP	Accelerated Retrieval Project
B&K	Brüel and Kjær
DQO	data quality objective
INEEL	Idaho National Engineering and Environmental Laboratory
OCVZ	organic contamination in the vadose zone
OU	operable unit
RPD	relative percent difference
RWMC	Radioactive Waste Management Complex
SDA	Subsurface Disposal Area
VOC	volatile organic compound
VVET	vapor vacuum extraction with treatment

Environmental and Operational Mid-Year Data Report for the OU 7-08 Organic Contamination in the Vadose Zone Project – 2004

1. INTRODUCTION

1.1 Purpose

This report documents operational activities of Operable Unit (OU) 7-08 through the mid-year reporting period for Calendar Year 2004 (i.e., January 1 through June 30, 2004). Operable Unit 7-08 is defined as the Organic Contamination in the Vadose Zone (OCVZ) Project at the Subsurface Disposal Area (SDA) within the Radioactive Waste Management Complex (RWMC) at the Idaho National Engineering and Environmental Laboratory (INEEL).

Operable Unit 7-08 extends from the land surface to the top of the Snake River Plain Aquifer, approximately 177 m (580 ft) beneath RWMC. Disposal pits and trenches within the SDA are not part of OU 7-08. The vadose zone contains volatile organic compounds (VOCs) primarily in the form of organic vapors that have migrated from waste buried in the SDA. Figure 1 is a map of the INEEL that shows the location of RWMC. Figure 2 is a map of RWMC, including the SDA.

Operable Unit 7-08 is the designation recognized under the *Federal Facility Agreement and Consent Order for the Idaho National Engineering Laboratory* (DOE-ID 1991) and the “Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA/Superfund)” (42 USC § 9601 et seq., 1980) for OCVZ remediation beneath RWMC. In accordance with the *Record of Decision: Declaration for Organic Contamination in the Vadose Zone Operable Unit 7-08, Idaho National Engineering Laboratory, Radioactive Waste Management Complex, Subsurface Disposal Area* (DOE-ID 1994) (hereafter referred to as *OU 7-08 Record of Decision*), the selected remedy for OCVZ consists of (1) extraction and destruction of organic contaminant vapors present in the vadose zone, and (2) monitoring of organic contamination in the Snake River Plain Aquifer beneath and near RWMC.

1.2 Background

To implement the selected remedy described in the *OU 7-08 Record of Decision* (DOE-ID 1994), three vapor vacuum extraction with treatment (VVET) units with recuperative flameless thermal-oxidation systems were installed within the boundaries of the SDA and began operating in January 1996. Two of the flameless thermal-oxidation-system units (designated as Units A and B) extracted and treated vapors from two extraction wells, and one flameless thermal-oxidation-system unit (designated as Unit C) extracted and treated vapors from one extraction well. During the spring of 2001, Unit C was decommissioned and removed from the SDA. Unit D, an electrically heated catalytic oxidizer, was installed at the previous Unit C location. Unit D was started in July 2001. Following the shakedown period, Unit D was brought into full-scale operation in March 2002. In February 2003, Unit B was decommissioned, followed by Unit A in late September 2003. Units E and F, both electrically heated catalytic oxidizers, have replaced Units A and B and became operational during spring 2004. Unit F was started on January 6 for testing and brought in to full-scale operation on March 15, 2004. Unit E was started on March 23 for testing, and brought in to full-scale operation on April 6, 2004.

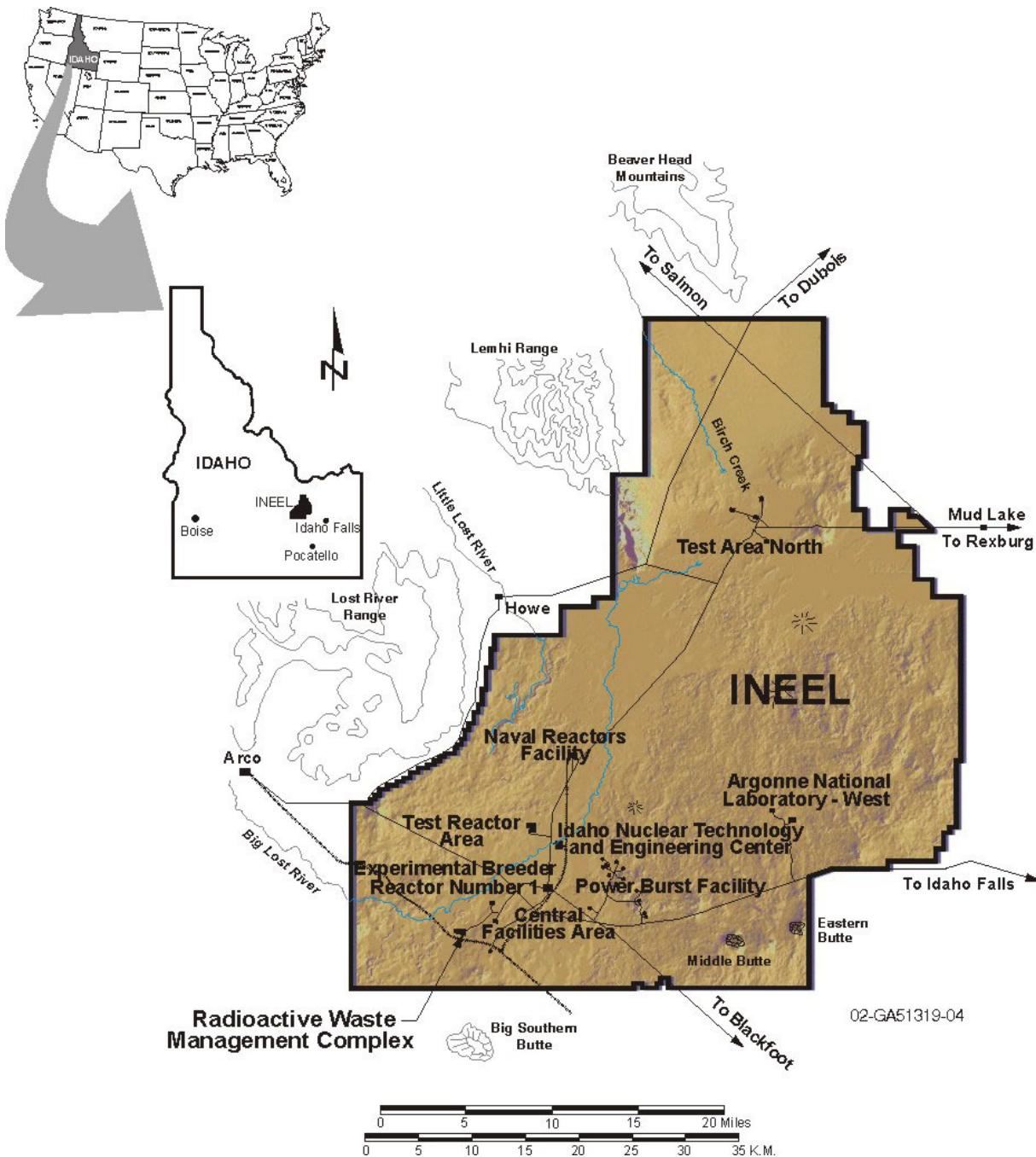


Figure 1. Map of the Idaho National Engineering and Environmental Laboratory, showing the location of the Radioactive Waste Management Complex and other major facilities.

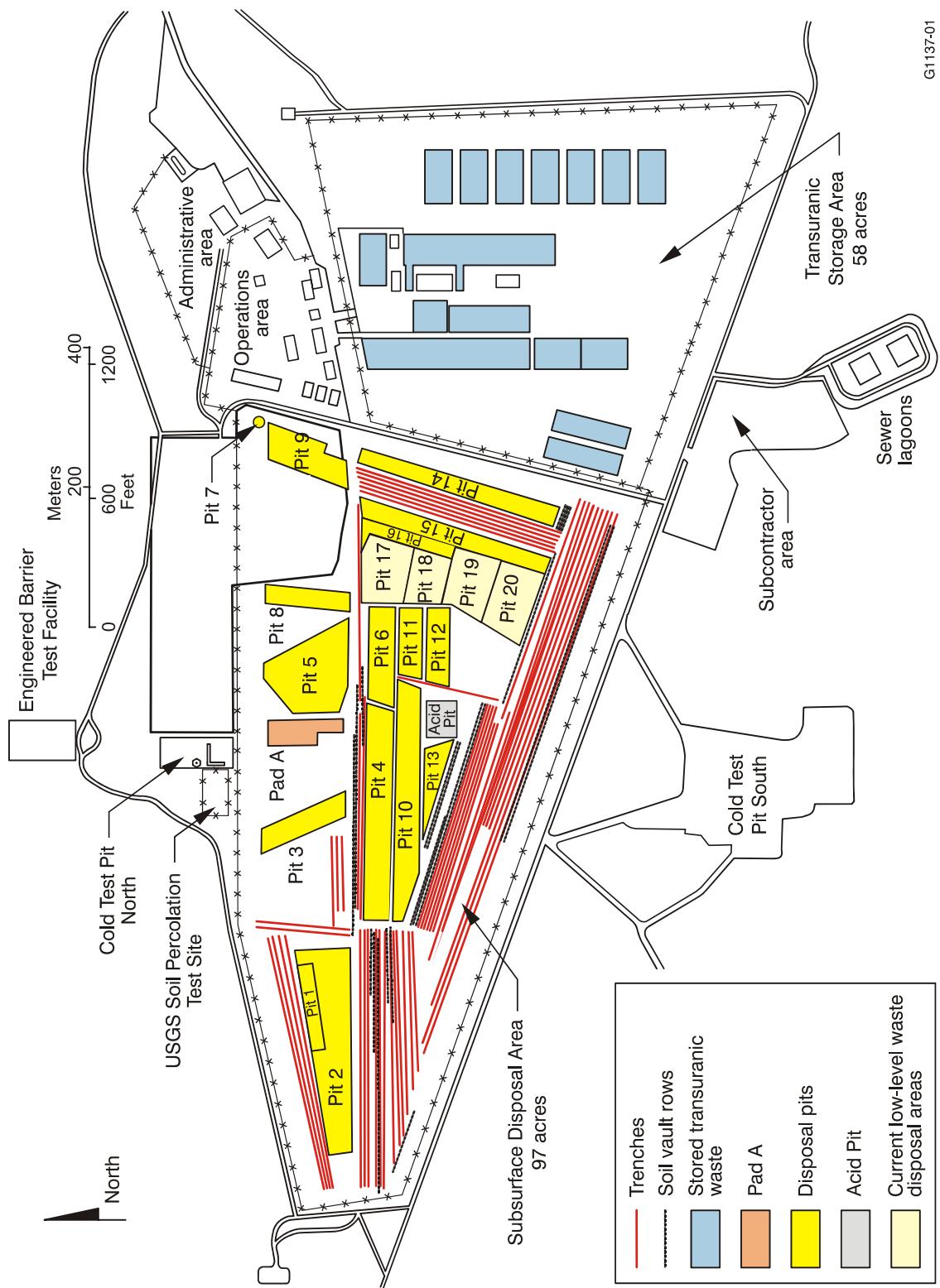


Figure 2. Map of the Radioactive Waste Management Complex, showing the location of the Subsurface Disposal Area.

In 1994, 15 new vapor extraction and monitoring wells were installed in or next to the SDA. In addition, one existing extraction well (Well 8901D) and five existing monitoring wells (Wells D02, 8801, 8902, 9301, and 9302) were incorporated for extracting and monitoring VOC vapors. In 2000, Wells DE-1 and M17S were installed to provide additional monitoring. In 2001, Wells 6E and 7E were installed as extraction wells. During late 2002, Wells SE6, IE6, DE6, SE7, IE7, DE7, SE8, IE8, and DE8 were drilled and set with casing and vapor ports. Wells SE3, IE3, DE3, IE4, and DE4 were set in early 2003. Additionally, Wells 1835 (also known as M10S-R) and 1898 were installed with vapor ports during 2003. All boreholes installed by OU 7-08 during Fiscal Year 2003 were completed as extraction and/or monitoring wells. Unit D is connected to four extraction wells: 7V, SE6, IE6, and DE6. Unit E is connected to six extraction wells: 6E, DE1, DE7, IE7, SE7, and 8901D. Unit F is connected to ten extraction wells: 2E, 7E, DE3, IE3, SE3, IE4, DE4, DE8, IE8, and SE8. Extraction is rotated between wells to maximize removal and treatment efficiency.

2. VAPOR VACUUM EXTRACTION WITH TREATMENT OPERATIONS

2.1 Spatial and Temporal Distribution of Carbon Tetrachloride in the Vadose Zone

The spatial and temporal distribution of CCl₄ concentration in the subsurface is graphically presented in Appendix D, Spatial and Temporal Distribution of Volatile Organic Compounds in the Vadose Zone. The figures in Appendix D represent a horizontal cross section of the distribution of the CCl₄ concentration in the SDA at approximately 21 m (70 ft) below ground surface. Concentration values from six different sampling events ranging from just before starting remedial action in January 1996 through June 2004 were used. The CCl₄ concentration distribution was kriged^a using an Environmental Visualization System software program. Trends showed a decrease in CCl₄ concentration until 2003. Starting in the summer of 2003, concentrations over the source area began to rise. Increased levels of CCl₄ over this period are likely the result of a rebound response when Units A and B were shutdown in September and February 2003, respectively. The vapor data indicate a decrease in the CCl₄ concentrations soon after Units E and F were started in the spring of April and March 2004, respectively. Figures 3 through 7 are kriging diagrams illustrating the rebounding result and subsequent decrease in concentrations for the sampling events during the months of September 2003, October 2003, March 2004, April 2004, and May 2004.

The behavior of VOC vapors in the subsurface can be divided into the following four general categories based on location:

- Locations influenced by the VVET system, with significant rebound (i.e., concentration increase after shutdown)
- Locations influenced by the VVET system, with moderate rebound
- Locations influenced by the VVET system, with no apparent rebound
- Locations not influenced by the VVET system.

a. Kriging is a method of linear regression that takes into account the spatial relationship of a series of points. In this case, concentrations are estimated between actual measured data points, providing insight into what the actual concentration profile might look like at any horizontal level in the contamination zone.

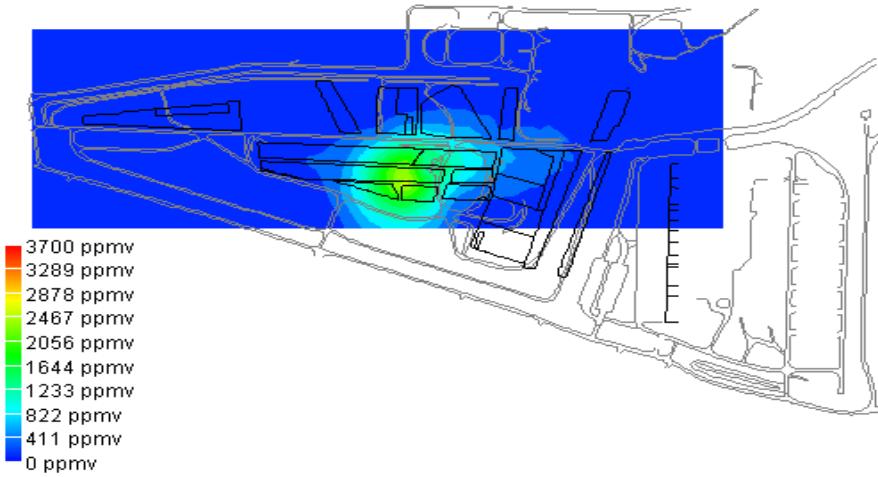


Figure 3. Spatial distribution of carbon tetrachloride in the Subsurface Disposal Area at approximately 21 m (70 ft) below ground surface in September 2003.

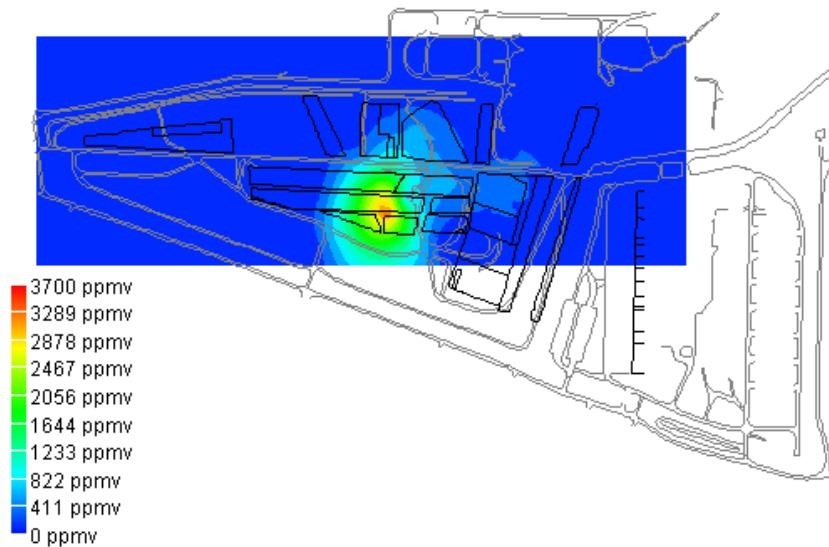


Figure 4. Spatial distribution of carbon tetrachloride in the Subsurface Disposal Area at approximately 21 m (70 ft) below ground surface in October 2003.

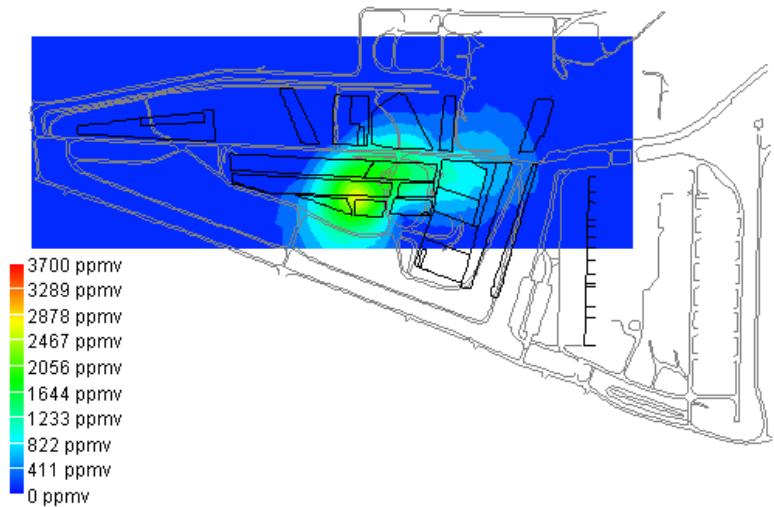


Figure 5. Spatial distribution of carbon tetrachloride in the Subsurface Disposal Area at approximately 21 m (70 ft) below ground surface in March 2004.

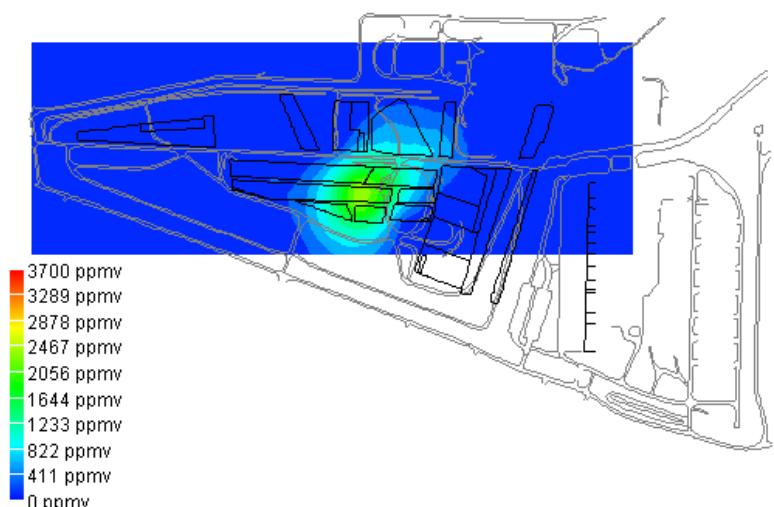


Figure 6. Spatial distribution of carbon tetrachloride in the Subsurface Disposal Area at approximately 21 m (70 ft) below ground surface in April 2004.

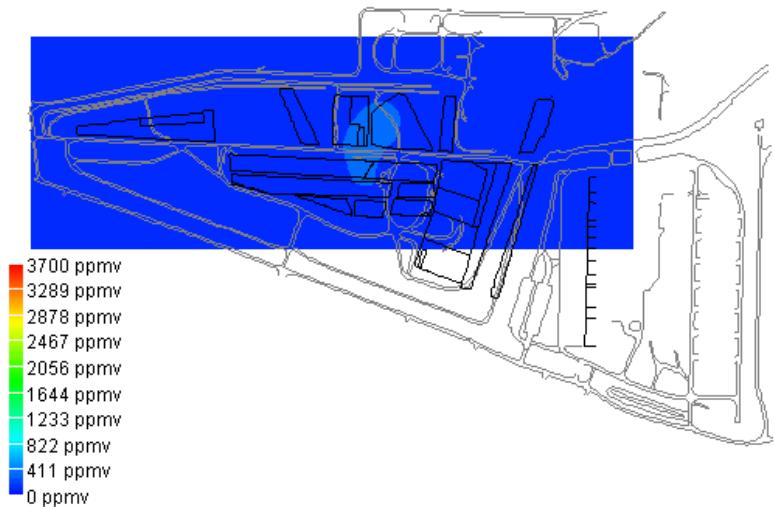


Figure 7. Spatial distribution of carbon tetrachloride in the Subsurface Disposal Area at approximately 21 m (70 ft) below ground surface in May 2004.

All four types of this behavior were evident during the operation period covered in this report because of the shutdown of Units A and B before the period, and subsequent startup of Units E and F during the period. The magnitude of the rebound for cases 1 and 2 seems proportional to their distance from a VOC source area. Concentrations near a source area show rebound to concentration levels as high or nearly as high as they were before the beginning of operations in January 1996. Also, this rebound usually occurs in a period of days after weeks of shutdown. Figures 8 and 9 show two examples of this type of behavior. Wells 8801 and 9302 are approximately 80 and 20 ft, respectively, from extraction Well 8901 (i.e., Units A and D). The concentrations in both ports have been reduced by the VVET system, but as a result of Unit A shutting down in September 2003, and perhaps Unit B in February 2003, there was significant rebound in both wells. This may be because of an active source and/or a reservoir of VOC mass in the surrounding material. In either case, extraction rate appears to be limited because the concentrations rebound to such a high level.

Figures 10 and 11 illustrate the second type of behavior. The decrease in concentration since the beginning of operations show wells DO2 and 8V are within the influence of the VVET system. However, the rebound is less significant likely because the wells are at least 500 ft away from a significant source area. Well 8V responds to the operation of Unit D, and Well DO2 responds to Units A and B. In looking at concentrations at Port 8V-3, the first obvious rebound period corresponds to shutdown of Unit B in June 2000 for about 2 1/2 years until Unit D was started. The second rebound corresponds to shutdown of Unit D in 2003 for about 3 months. In both cases, the concentration decreased shortly after restart. Concentrations at Port DO2-3 on the other hand rebounded after Units A and B were shutdown, but did not decrease shortly after shutdown.

Figures 12 and 13 illustrate the third case of behavior when the concentration is influenced by the VVET system, but there is no apparent rebound. Well VVE1 is over 1000 ft from a source area and Well WWW1 is well over 2000 ft from a source. The concentrations at these locations have decreased significantly since the beginning of operations. The lack of rebound shows the lack of a secondary source.

Locations that are not affected by the VVET system, are typically several thousand feet from a source (e.g. ports in Wells VVE6/M6S and VVE7/M7S), or closer to a source but deeper in the vadose zone (e.g. ports in Wells M1S, M3S, and M10S). Recently some curious behavior at ports considered deep (i.e., below the C-D [240-ft] interbed), but close to source areas has been observed. A significant expansion in monitoring and extraction capability below the C-D interbed was recently added to the VVET system. An increase in concentration was recently observed in the wells similar to that shown in Figures 14 and 15. The cause of the increase is not understood, but the subsequent decrease in concentrations appears to coincide with testing of the Units E and F, which did extract from the deep extraction zones during testing. Deep extraction has not occurred since beginning of normal operations. The project will continue to monitor these ports to see if deep extraction is warranted.

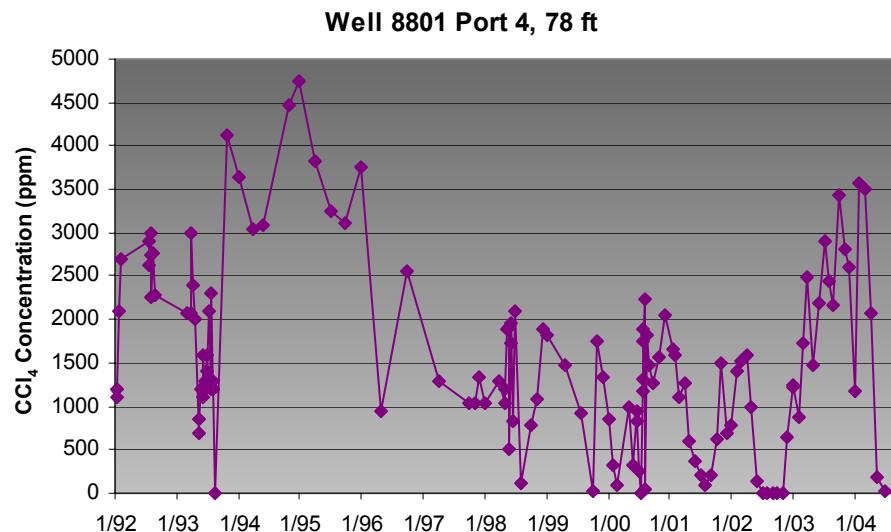


Figure 8. Carbon tetrachloride concentration at Port 8801-4, 78 ft below land surface.

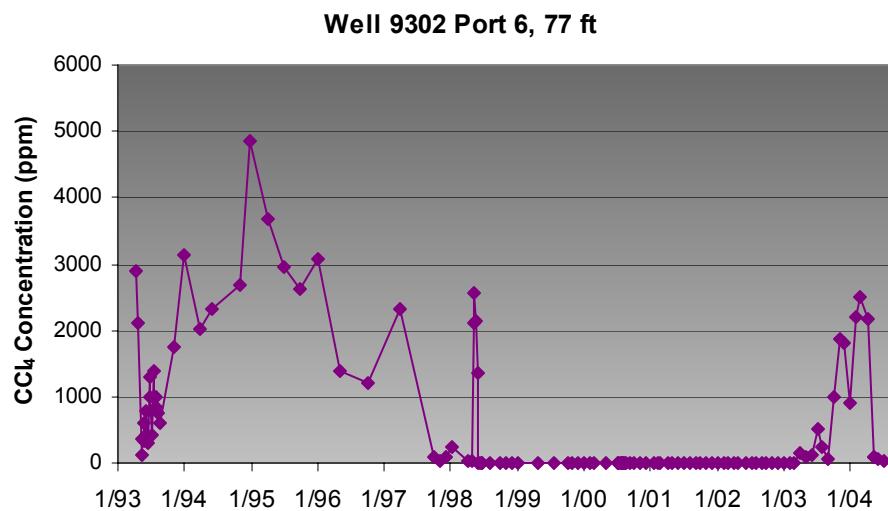


Figure 9. Carbon tetrachloride concentration at Port 9302-6, 77 ft below land surface.

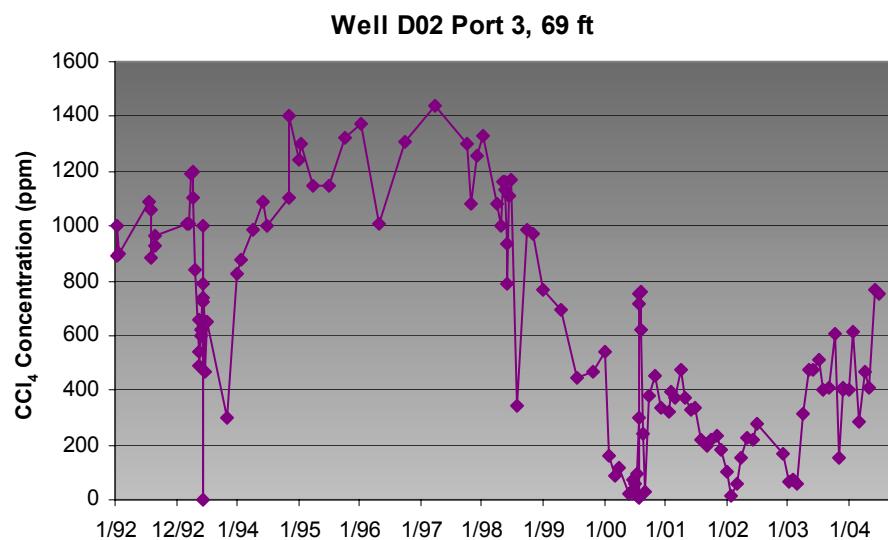


Figure 10. Carbon tetrachloride concentration at Port D02-3, 69 ft below land surface.

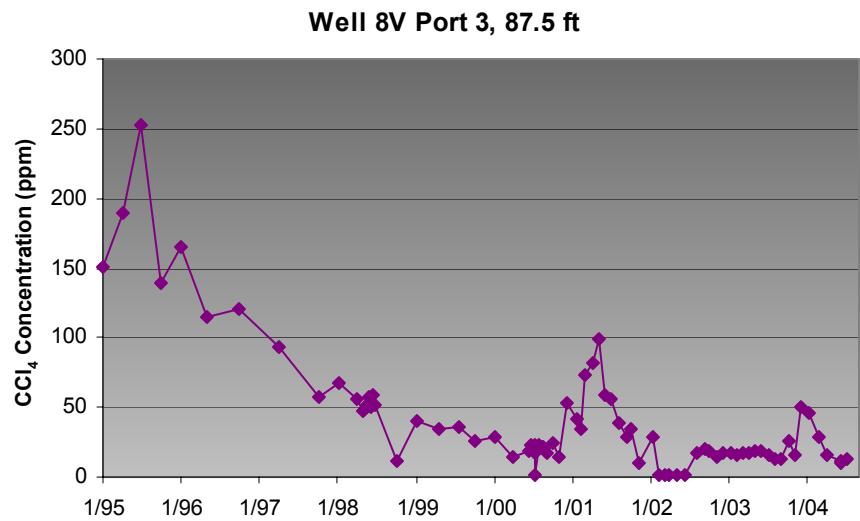


Figure 11. Carbon tetrachloride concentration at Port 8V-3, 88 ft below land surface.

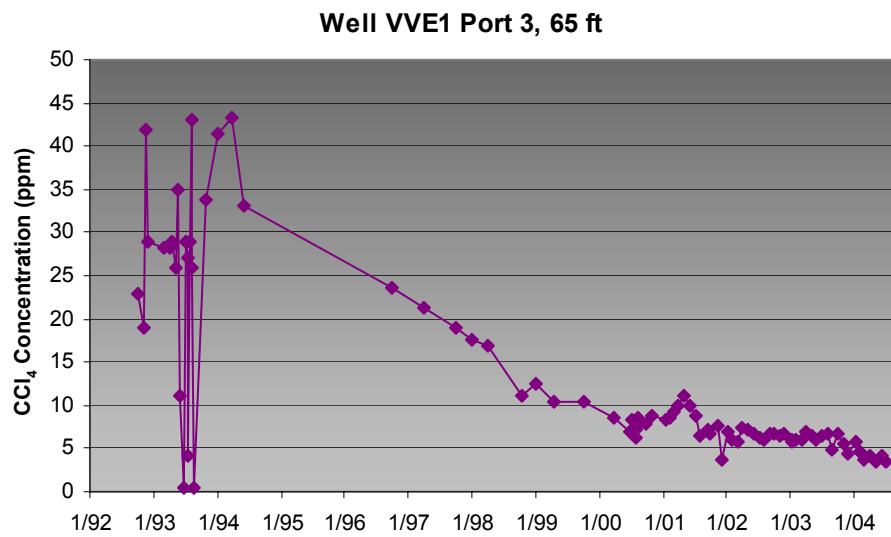


Figure 12. Carbon tetrachloride concentration at Port VVE1-3, 65 ft below land surface.

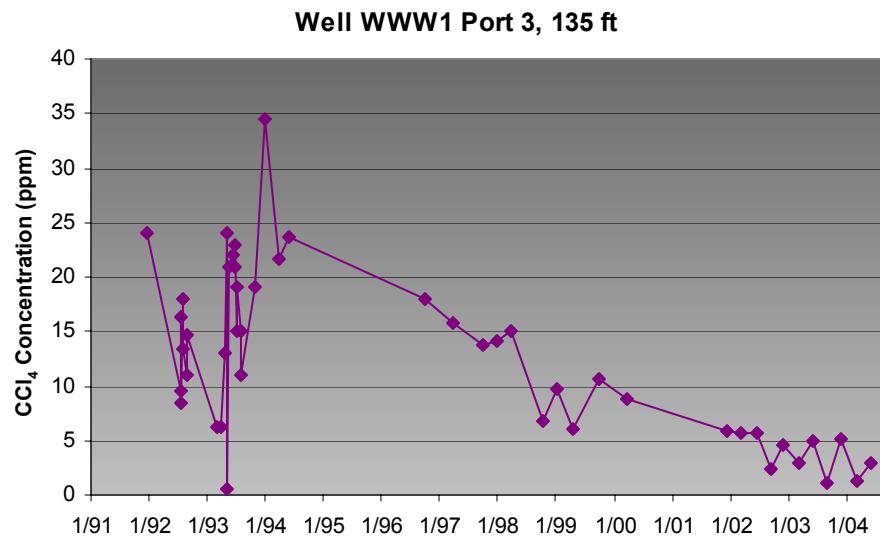


Figure 13. Carbon tetrachloride concentration at Port WWW1-3, 135 ft below land surface.

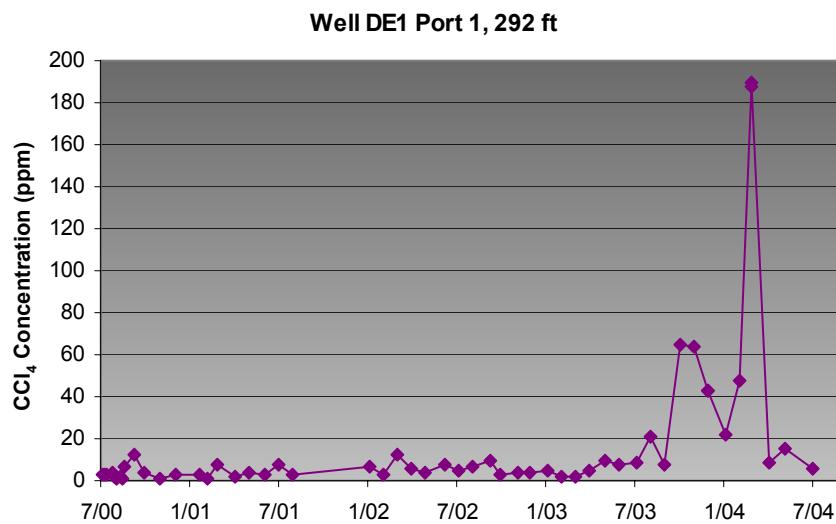


Figure 14. Carbon tetrachloride concentration at Port DE1-1, 292 ft below land surface.

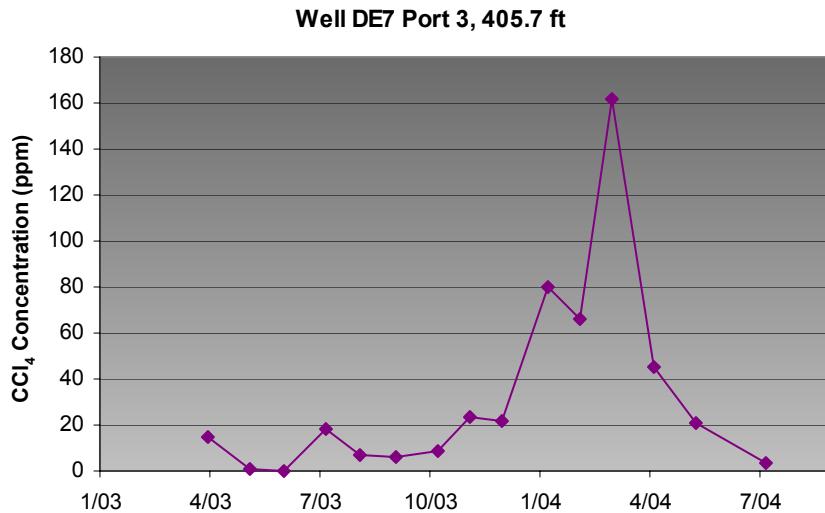


Figure 15. Carbon tetrachloride concentration at Port DE7-3, 406 ft below land surface.

2.2 System Optimization and Maintenance

This section documents corrective and preventive maintenance completed on the VVET units from January through June 2004. Preventive maintenance activities were completed in accordance with the OCVZ VVET preventive maintenance schedule (INEEL 2004). Unit D has been operating since March 4, 2002. Unit F was brought into operational status on March 15, 2004, and Unit E on April 6, 2004.

2.2.1 Corrective Maintenance

Corrective maintenance activities are required in response to an event where systems fail or break down. Work is performed in accordance with the INEEL “Integrated Work Control Process” (STD-101). Because of effective preventive maintenance and design, only one corrective maintenance was required during the 2004 reporting cycle, as described below:

- May 13, 2004—Corrective, unplanned maintenance on Unit F. A loose and, therefore, damaged connection on one of the line reactors feeding the preheater was found and replaced. The unit was restarted on May 19.

2.2.2 Preventive Maintenance

A preventive maintenance schedule has been developed to ensure appropriate measures are taken to maximize the life of the system components. The preventive maintenance schedule identifies maintenance activities to be completed at monthly, quarterly, semiannual, and annual intervals (INEEL 2004). Project personnel work with planners and maintenance to plan and execute maintenance activities. Development and implementation of preventive maintenance work packages conform to STD-101.

During the 2004 mid-year reporting cycle, preventive maintenance tasks were performed on Units D, E, and F.

- Unit D:
 - Monthly—January, February, March, April, May, and June
 - Quarterly—January, March, and June
 - Annual—June.
- Unit E:
 - Monthly—May and June
 - Quarterly—May
 - Semiannual—May
 - Annual—May.
- Unit F:
 - Monthly—April, May, and June
 - Quarterly—May
 - Semiannual—May
 - Annual—May.

In the future all quarterly, semiannual, and annual maintenance will be coordinated to be performed during the same months for all units.

2.2.3 Configuration Management

The configuration management process provides quick access to a database of information about individual components and pieces of equipment, including the manufacturer model and serial numbers, contact address and phone numbers, and other pertinent information. The database also provides a numbering system to identify the equipment and components in the field when performing preventive maintenance or other work activities.

2.2.4 Instrument Calibration

Instrument calibrations are completed at regular intervals to maximize the quality of operations data and the confidence with which this data can be applied to make judgments relative to process performance. Calibration of only the primary flow element in each system on an annual basis is required (INEEL 2004). The primary flow elements will undergo an annual performance check that will use a calibrated hotwire anemometer for in situ flow verification. Calibration of other process indicators, including wellhead flowmeters, temperature elements, and pressure transmitters, is not required.

2.2.5 Installation of Units E and F

Units A and B were decommissioned during 2003 and were replaced with Units E and F, respectively. During the mid-year 2004 operational period, extensive preparation, unit configuration,

installation, and testing activities were performed to prepare for deployment of the new Units E and F in April and March, respectively.

2.2.6 Radiological Filter Sampling and Analysis at the Inlet to Vapor Vacuum Extraction with Treatment Units

Weekly radiological surveys were completed on inlet filters downstream of the blowers at each of the VVET units. Results indicate that radiological contamination is not present on the filters.

2.2.7 Operational and Maintenance Plan Revision

A complete revision to the Operations and Maintenance Plan for OU 7-08 was performed to incorporate changes associated with the drilling of new extraction wells, decommissioning of Units A and B, and installation and startup of Units E and F. This revision includes new preventive maintenance procedures, operating procedures, technician qualification checklists, spare parts lists, and system drawings. This update will ensure accurate documentation of the oxidizer operating parameters and operations/maintenance procedures to extend oxidizer life to the extent possible and to optimize process efficiency and operational safety. The revised operations and maintenance plan was completed and released in August 2004.

2.3 Operational Uptime

During the mid-year 2004 operations period, a goal of 80% uptime of available hours was set for operation of the VVET units. Available hours do not include planned and uncontrollable downtimes (see Section 2.3.1). Tracking and documenting the operational uptime will allow the project to assess the reliability of the VVET units and determine what, if any, corrective actions can be taken to reach their optimal performance.

Appendix E, Operations History of Vacuum Vapor Extraction with Treatment Units at the Subsurface Disposal Area, presents the operations history of the VVET units and the mid-year 2004 reporting period history for Units D, E, and F. Figure 16 contains the cumulative operational history for all units since operations began in January 1996.

Units E and F were first turned on in March and January, respectively, and began removing and treating vapors during testing, but were not yet considered to be in “full-scale operations” status. Unit F began full-scale operations on March 15 and Unit E on April 6, 2004. Calendar hours after beginning full-scale operational status for Unit E were 2,064 and Unit F were 2,576. Unit D had the full 4,368 calendar hours between January 1 and June 30, 2004, to operate.

2.3.1 Planned and Uncontrollable Downtime

Available hours for operation are defined as calendar hours less planned and uncontrollable downtimes. The majority of downtimes occurring during the mid-year 2004 operations period were classified as planned downtimes. Planned downtimes included scheduled maintenance activities (i.e., corrective and preventive) and system optimizations. An uncontrollable downtime is defined as a circumstance clearly outside the control of the project that causes the operation of the units to be disrupted. A possible cause of this type of downtime is weather-related power outages. Uncontrollable downtime does not include situations of equipment or component failure.

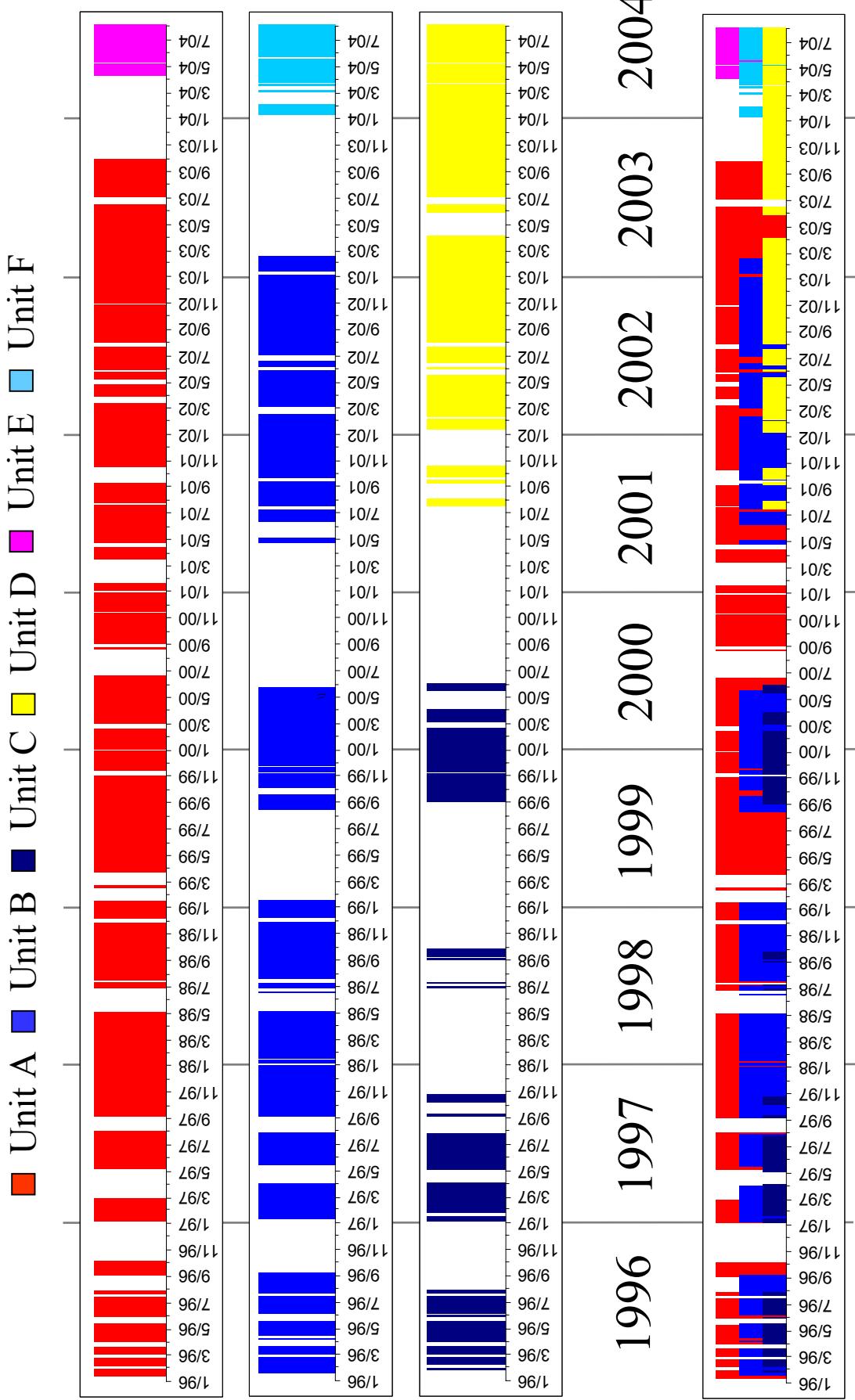


Figure 16 Vapor vacuum extraction with treatment units' operational history.

Unit D operated for 3,904 hours (89% of calendar hours, 100% of available hours) between January 1 and June 30, 2004. Unit E operated for 1,816 hours (88% of calendar hours, 98% of available hours) between April 6 and June 30, 2004. Unit F operated for 2,324 hours (90% of calendar hours, 94% of available hours) between March 15 and June 30, 2004.

Dates and brief explanations of activities that resulted in planned and uncontrollable downtime operational shutdowns are itemized below:

- January 1 through 5, 2004—Uncontrollable weather-related outage.
- January 13, 2004—Planned downtime to energize transformer at Unit E required Unit D to be shutdown for just over an hour.
- March 8, 2004—Planned downtime to again energize transformer at Unit E required Unit D to be shutdown for just over an hour.
- March 18 through 24, 2004—Planned downtime for Units D and F to allow ARP to relocate and re-route the power to Units E and F.
- May 3 through 10, 2004—Planned downtime for Units D and E to bury electrical cable installed to support ARP and install new switch gear.
- May 12, 2004—Planned downtime of Unit F to support an ARP-required power outage.
- May 25 and 26, 2004—Planned downtime at Units D, E, and F to support an ARP power outage and to complete planned maintenance.
- June 8, 2004—Planned downtime at Unit D for preventive maintenance.
- June 30, 2004—Planned downtime of Units D and E to support an ARP-required power outage.

2.3.2 Unplanned Downtime

Unplanned downtime is defined as time required to unexpectedly correct situations of equipment or component failures.

- June 19 through June 21, 2004—Unit E had one unplanned downtime totaling 38.5 hours. This downtime occurred on Saturday, June 19, 2004, and was caused by a communication loss between the variable frequency drives and programmable logic controller causing a fault condition on the variable frequency blower drive. The unit restarted the following Monday. Project personnel continue to watch for reoccurrence and cause of the communication failure.
- May 13 through May 19, 2004—Unit F had one unplanned downtime totaling 143 hours. A loose connection at one of line reactors feeding the preheater was identified. The unit was restarted following replacement of the damaged line reactor.

Through the operational period, Unit D had no unplanned downtimes.

3. ENVIRONMENTAL AND OPERATIONAL SAMPLE DATA

To monitor effectiveness of the VVET system, vapor samples are collected from monitoring wells and at the inlet of VVET units, then analyzed using a Brüel and Kjær (B&K) photoacoustic multigas analyzer. This section presents a discussion of the following data quality and monitoring objectives for the project:

- Precision
- Accuracy
- Completeness
- Comparability
- Mass removal
- Spatial and temporal distribution of CCl₄ in the vadose zone
- System optimization and maintenance.

3.1 Precision

Precision is the ability of a measurement to be consistently reproduced. Precision pertains to the quality and reliability of the field data obtained by the project. Two types of sample replicates were analyzed to ensure the quality of collected data—field repeats and field duplicates. A field repeat is a repeat analysis of a field-collected sample used to test the precision of the analytical instrument. A field duplicate is a separate sample collected from the same location at the same time as the original sample. This duplicate sample is used to test the precision of the field collection techniques. Duplicate imprecision may also be an indication of failure to properly operate analytical equipment or adhere to analyzer procedural requirements. A measurement of precision was determined by calculating the relative percent difference (RPD) for both the field duplicates and the field repeats. A goal was set to achieve precision of less than 30% RPD for all replicate samples (INEEL 2002). The RPD is calculated as shown in Equation (1) where C₁ and C₂ are the respective analyte concentrations in a replicate sample pair.

$$RPD = 100 \times \frac{\left(|C_1 - C_2| \right)}{\left(\frac{C_1 + C_2}{2} \right)} . \quad (1)$$

Samples were analyzed, as in previous operating cycles, using a B&K gas analyzer. Sample precision of duplicate or repeat samples of chloroform, 1,1,1-trichloroethane, tetrachloroethene, trichloroethene, carbon tetrachloride (CCl₄), and total VOCs was recorded (see Appendix A, Sampling and Analysis Precision). A total of 163 sample replicates (duplicate and repeats) was collected during the operating cycle, resulting in a total of 815 possible component pairs. Of the 815 sample component pairs, 747 exhibited RPDs of less than 30%. Of the 68 sample component pairs that exceeded 30% RPD, 27 were the result of measured analyte concentrations below the 1-ppmv B&K detection limit. Measurement precision decreases as sample concentrations approach the 1-ppmv B&K detection limit, resulting in the observed increase in RPD. Over 97% of all repeat component comparisons resulted in an RPD of less than 30%. Duplicate component comparisons resulted in 78% with an RPD of less than 30%. While these results provide strong confidence in the analytical instrument's precision, they also reveal the need for some improvement in the precision of field collection techniques and adherence to procedure requirements.

3.2 Accuracy

Accuracy relates to the extent to which instrument readings represent true values and are free from error. Instrument accuracy was tested using various sample standards before analyzing each sample set during the mid-year 2004 operating period. Standards (i.e., premixed gas samples at verified concentrations) were purchased at concentrations of 1, 5, 100, 500, and 1,000 ppmv. Actual constituent concentrations of each of the standard gasses, as provided by the manufacturer, are detailed in Table 1 along with the average of the B&K standard gas results. These standard gasses were analyzed before each set of vapor samples was analyzed to quantify and validate instrument performance. Record of the accuracy of the B&K gas analyzer for all five constituents is illustrated in Appendix B, Analytical Accuracy.

Table 1. Standard gas compositions and Brüel and Kjær results.

	Chloroform (ppmv)	1,1,1- Trichloroethane (ppmv)	Tetrachloroethene (ppmv)	Trichloroethene (ppmv)	Carbon Tetrachloride (ppmv)
Supplier's results for 1-ppmv standard	1.0008	1.0041	0.9998	0.9996	1.0005
B&K's average results for 1 ppmv	1.23	2.44	1.16	1.20	1.18
Supplier's results for 5-ppmv standard	5	4.9	5	4.9	4.9
B&K's average results for 5 ppmv	5.36	10.6	5.31	5.24	4.56
Supplier's results for 100-ppmv standard	98.55	100.25	99.81	100.06	100.23
B&K's average results for 100 ppmv	112	193	103	101	88.0
Supplier's results for 500-ppmv standard	500.1	501.1	498.1	499.4	498.8
B&K's average results for 500 ppmv	498	880	457	458	422
Supplier's results for 1000-ppmv standard	0	0	0	0	1006.29
B&K's average results for 1000 ppmv	0	0	0	0	945

Analytical results for each of the five standard gases are listed below:

- 1-ppmv CCl₄ standard sample were measured with reported concentrations from 0.87 to 2.65 ppmv. Analytical results for 38 of the 53 (72%) 1-ppmv CCl₄ standard samples were within the prescribed acceptable $\pm 20\%$ error bound limit.
- Analytical results for the 5-ppmv CCl₄ standard samples ranged from 3.15 to 5 ppmv. Analytical results for 46 of the 47 (98%) 5-ppmv CCl₄ standard samples were within the prescribed acceptable $\pm 20\%$ error bound limit.

- Analytical results for the 100-ppmv CCl₄ standard samples ranged from 79 to 98 ppmv. Analytical results for 44 of the 46 (96%) 100-ppmv CCl₄ standard samples were within the prescribed acceptable ±20% error bound limit.
- Analytical results for the 500-ppmv CCl₄ standard samples ranged from 350 to 465 ppmv. Analytical results for 41 of the 48 (85%) 500-ppmv CCl₄ standard samples were within the prescribed acceptable ±20% error bound limit.
- The 1,000-ppmv CCl₄ standard samples had results that ranged from 780 to 1.03E+03 ppmv. Analytical results for 46 of the 47 (98%) 1,000-ppmv CCl₄ standard samples were within the prescribed acceptable ±20% error bound limit.

Analytical results have fallen within the acceptable ±20% error bound limit of known CCl₄ concentrations for 215 of 241 (91%) of all standard samples.

3.3 Completeness

A total of 1,035 samples were targeted during the mid-year 2004 period of operation. This total included 900 well samples (834 monthly and 66 quarterly), 90 sample repeats, and 45 sample duplicates. Ultimately, 964 (93% of target) samples were analyzed and recorded. This included 829 well samples, 90 well repeats, and 45 well duplicates. Repeats and duplicates were targeted for analysis rates of at least 1:10 and 1:20, respectively, in accordance with the *Data Quality Objectives Summary Report for Operable Unit 7-08 Post-Record of Decision Sampling* (INEEL 2002) (hereafter referred to as OCVZ Data Quality Objective [DQO] Report). Factors affecting sampling completeness include inaccessibility to well locations and sample-bag failure. For example, during the mid-year 2004 period of operation, several wells were inaccessible because of the construction activities of the Accelerated Retrieval Project (ARP) over Pit 4. As a result, 23 of the 73 samples that were not collected were because of inaccessibility. Another 15 missed samples were the result of three ports that are regularly poor yielding ports. These three ports are 7V-2, M3S-3, and USGS118-2. Each of these three ports yielded one sample during the reporting period, but during the other five attempts did not. Down-hole obstruction is likely the cause in M3S-3 and USGS118-2. At port 7V-2, which is located in close proximity to Unit D and at 147 ft in depth, the negative pressure down-hole created by Unit D makes retrieving a sample with the project's sampling pump impossible while the unit is running. The majority of the remaining missed samples were the result of sample bag failure or ports that sporadically did not yield a sample.

Percent completeness of the sampling and analytical data was calculated for this operating cycle using Equation (2). Completeness of sampling is detailed in Table 2 for monthly well monitoring and duplicate and repeat samples. Because samples are considered noncritical during VVET operations, the OCVZ DQO Report designates a target for completeness of 90%. As stated above, the project met this goal with a completion of 93% of targeted samples being collected.

$$\% \text{complete} = 100 \times \left(\frac{\text{number of samples analyzed}}{\text{number of samples targeted}} \right) . \quad (2)$$

Table 2. Completeness of well sampling.

Type	Samples Targeted	Samples Analyzed	Percent Complete
Monthly monitoring samples	900	829	92%
Monthly duplicates	45	45	100%
Monthly repeats	90	90	100%
Total samples	1,035	964	93%

3.4 Comparability

The data set included in this report (i.e., January 1, 2004 through June 30, 2004) is comparable to that of previous data sets because the same field collection technique, field procedures, sample-handling methods, and quality assurance and quality control procedures were applied. Analytical detection limits are similar because the same field instrumentation was used (i.e., B&K gas analyzer).

On a monthly basis, samples were collected from 139 vapor ports within and in the immediate vicinity of the SDA boundary to monitor concentration trends in the VOC plume. On a quarterly basis, 33 additional ports outside the SDA boundary were sampled to monitor the vapor concentrations at various locations ranging from just outside the fence up to 3,200 m (10,500 ft) from the VOC source area. Vapor port sampling and analyses were completed in accordance with the OCVZ DQO Report.

The analytical results for four monthly vapor port sampling events (i.e., January, February, April, and May 2004) and two quarterly sampling events (i.e., March and June 2004) are included in Appendix F, Well-Port Monitoring Data and Carbon Tetrachloride Concentration Graphs through June 2004.

3.5 Mass Removal

The VOC concentrations of process samples taken from ports on the inlet lines (downstream of the ambient air intake valves) to the VVET units were used to calculate mass-removal rates. Samples were taken daily during the normal operations workweek (i.e., Monday through Thursday), and the results were averaged between sampling events. Results show that approximately 9,700 kg (21,000 lb) of total VOCs were removed during this operation period. Units D, E, and F removed approximately 2,000 kg (4,500 lb), 3,200 kg (7,000 lb), and 4,500 kg (9,900 lb), respectively. Actual operating hours and average unit operation parameters (i.e., flow rate, pressure, and temperature) were used for the mass-removal calculations (EDF-2157).

Analyte mass-removal estimates for January through June 2004 for Units D, E, and F are presented in Tables C-1, C-2, and C-3 of Appendix C, Mass Removal Sample Data. Process sample (i.e., inlet) CCl_4 concentrations for Units D, E, and F are shown graphically in Figures C-1, C-2, and C-3 (see Appendix C), respectively. For comparison, Figures C-4 and C-5 (see Appendix C) graphically present proportional mass removal estimates for each analyte during this reporting cycle and since January 1996, respectively. Analyte mass removal estimates for each operating cycle since January 1996 are provided in Table C-4 (see Appendix C). As shown in Table C-4, proportions of each analyte have remained fairly constant over time. As shown in Figures C-4 and C-5, CCl_4 is the largest contributor to the mass removal of VOCs with 58% of the total occurring from January through June 2004, and 61% of the total occurring since January 1996.

4. WELL MONITORING

The *Volatile Organic Compound Vapor Monitoring Results from Selected Wells at the Radioactive Waste Management Complex* (Housley 2003) contains all data collected from the monitoring wells from 1993 through 2002. Starting in 2003, these data are updated and presented within the environmental and operational semiannual data reports and will contain data from the previous 6 months of monitoring. Table 3 shows the project and official names of the 58 wells presented in this report. Figure 17 shows the depths of the ports of each well. Figure 18 shows the location of each monitoring well in and around RWMC.

Appendix F presents CCl₄ concentrations in graphical form of subsurface vapor samples collected since the beginning of operations and data tables presenting concentrations of all VOCs from January through June 2004. The samples were collected from well ports located inside and in close proximity to the SDA.

Table 3. Organic contamination in the vadose zone wells listed by official name and project name.

Inside the Subsurface Disposal Area		Outside the Subsurface Disposal Area	
Official Name	Project Name	Official Name	Project Name
RWMC-VVE-V-067	1E		
RWMC-VVE-V-068	2E	VVE1	VVE1
RWMC-VVE-V-069	3E	VVE3	VVE3
RWMC-VVE-V-070	4E	VVE4	VVE4
RWMC-VVE-V-071	5E	VVE6A	VVE6
RWMC-GAS-V-072	1V	VVE7	VVE7
RWMC-GAS-V-073	2V	VVE10	VVE10
RWMC-GAS-V-074	3V	M1SA	M1S
RWMC-GAS-V-075	4V	M3S	M3S
RWMC-GAS-V-076	5V	M4D	M4D
RWMC-GAS-V-077	6V	M6S	M6S
RWMC-GAS-V-078	7V	M7S	M7S
RWMC-GAS-V-079	8V	M10S	M10S
RWMC-GAS-V-080	9V	SOUTH-1835	M10S-R
RWMC-GAS-V-081	10V	SOUTH-MON-A-001	M11S
88-01D	8801	SOUTH-MON-A-003	M13S
89-02D	8902	SOUTH-MON-A-004	M14S
9301	9301	SOUTH-MON-A-009	M15S
9302	9302	SOUTH-MON-A-010	M16S
RWMC-VVE-V-163	DE1		
IE3	IE3	SOUTH-1898	1898
DE3	DE3	SOUTH-GAS-V-005	OCVZ11
IE4	IE4	SOUTH-GAS-V-007	OCVZ13
DE4	DE4	SOUTH-GAS-V-008	OCVZ14
IE6	IE6	USGS 118	USGS118
DE6	DE6	WWW1	WWW1
IE7	IE7	77-1	77-1
DE7	DE7	78-4	78-4
IE8	IE8		
DE8	DE8		
D02	D02		
RWMCMON-A-162	M17S		

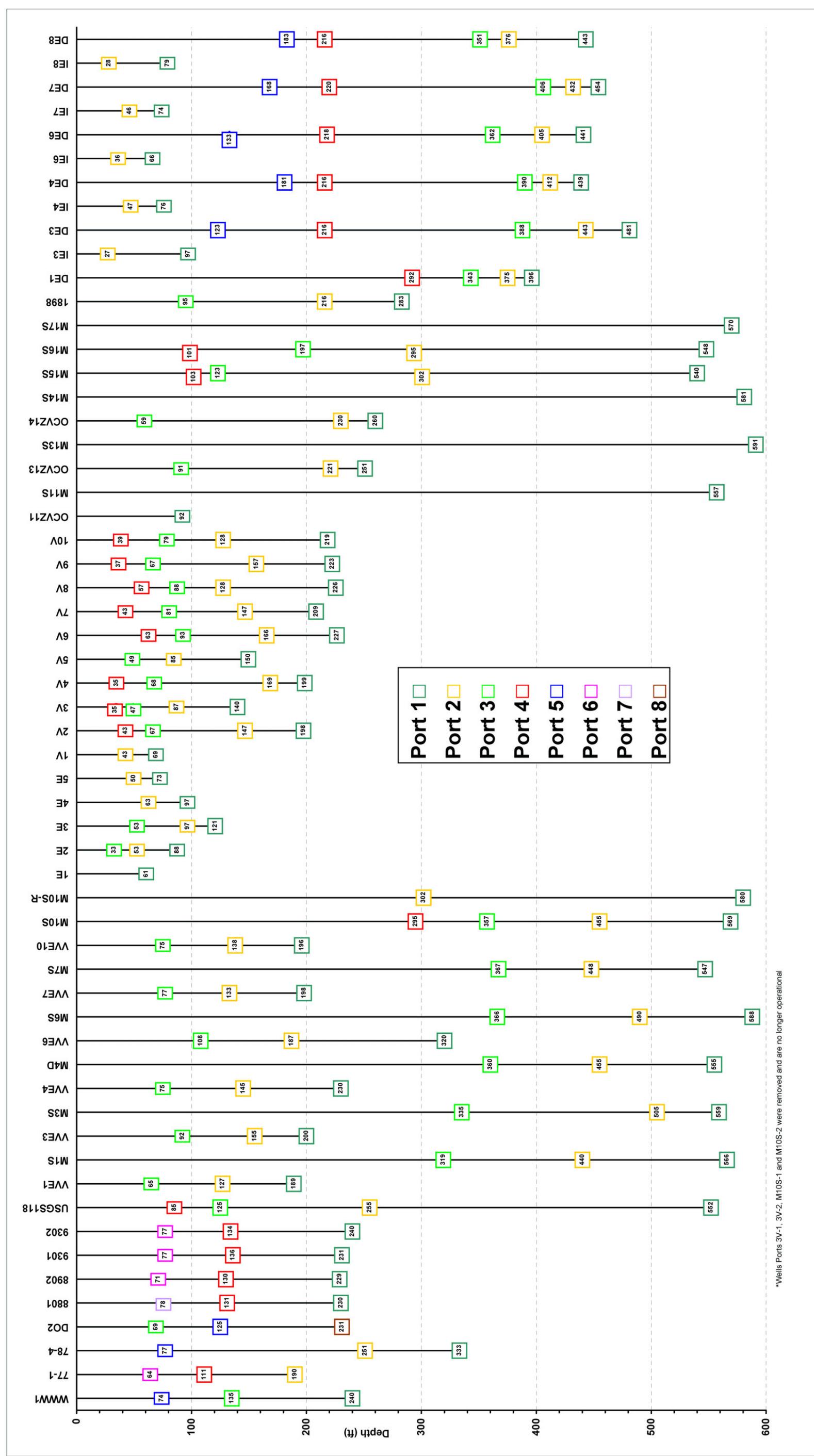


Figure 17. Port depths of the Operable Unit 7-08 monitoring wells.

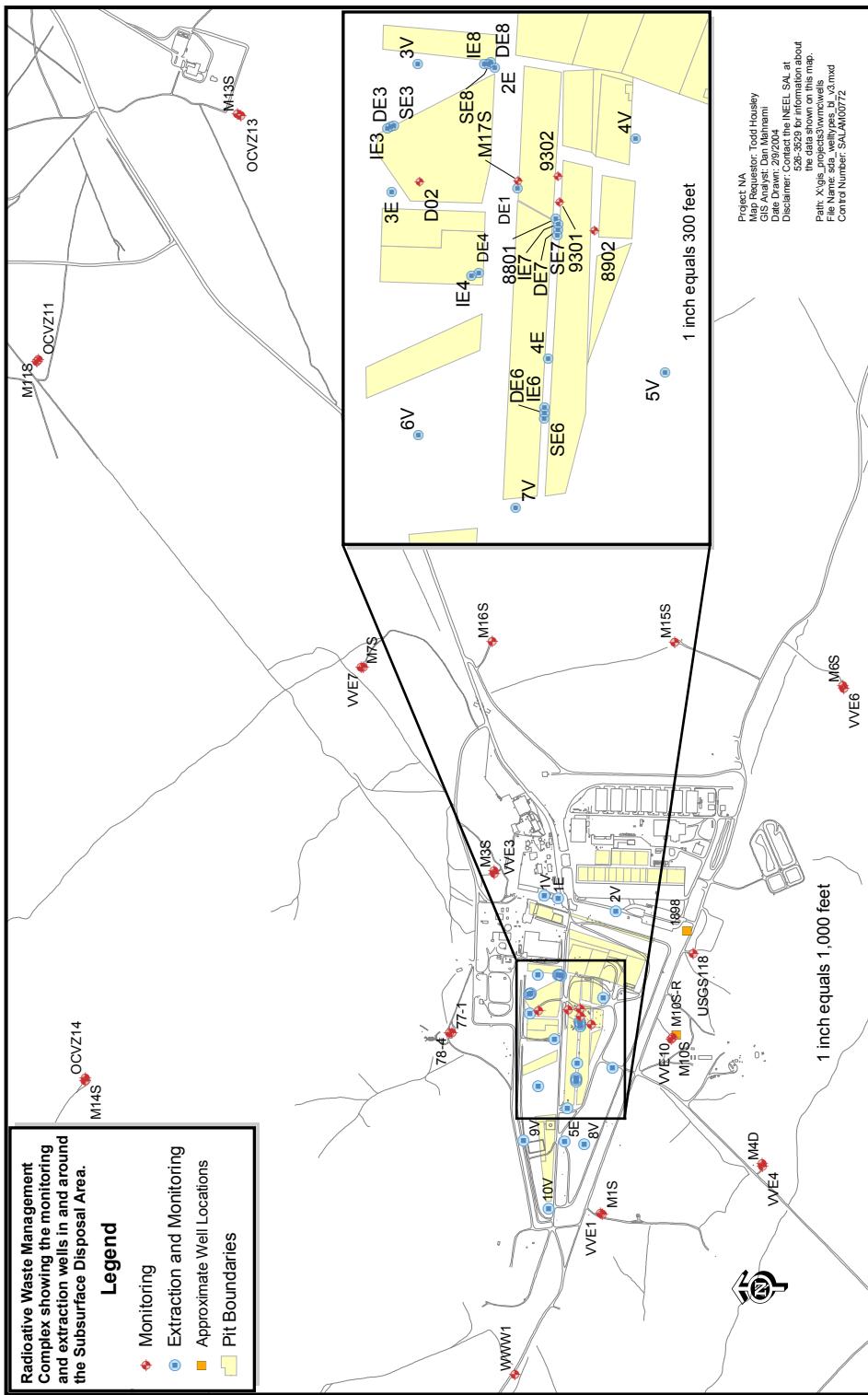


Figure 18 Operable Unit 7-08 vapor monitoring and extraction wells inside and outside the Subsurface Disposal Area.

5. CONCLUSION

Data quality and monitoring objectives include completeness, precision, and accuracy as outlined in the OCVZ DQO Report. The target for completeness was 90%. A goal of $\pm 30\%$ was set for precision, and a goal for accuracy was set at $\pm 20\%$. The project exceeded the completion target and collected 93% of intended samples. Of the 815 component pairs analyzed for precision during the reporting period, 92% were within the prescribed goal. Of the 241 samples analyzed for accuracy, 89% were within the prescribed goal.

Units D, E, and F are operating and removing VOC mass from the RWMC subsurface. General trends show a decreasing areal extent of the plume of VOCs. The prevailing long-term trends indicate that overall VOC concentrations are decreasing above the 34-m (110-ft) interbed when compared to data taken before operations at the same depth. Rebounds (i.e., increases) in concentration corresponding to VVET unit shutdowns continue to occur. The magnitude of the rebounds is generally proportional to the distance from a source area, indicating active primary and secondary sources exist.

6. REFERENCES

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Appendix A

Sampling and Analysis Precision

Appendix A

Sampling and Analysis Precision

To calculate mass removal rates of VOCs and to monitor effectiveness of the VVET system at the SDA, vapor samples were collected from monitoring wells and at the inlet of the VVET units then analyzed using a B&K photoacoustic, multigas analyzer. Tables A-1 and A-2 show the precision of duplicate and repeat samples of chloroform, 1,1,1-trichloroethane, tetrachloroethene, trichloroethene, CCl₄, and total VOCs for the mid-year 2004 operational period.

Table A-1. Sample duplicates during the mid-year 2004 operational period.

	ANALYSIS DATE	SAMPLE DATE	TYPE	CHCL3	TCA	PCE	TCE	CCL4
1	1/7/04 1:06 PM 1/7/04 1:09 PM	1/7/04 10:13 AM 1/7/04 10:13 AM	NORMAL DUPLICATE	20.3 14.3	10.4 7.15	6.02 5.63	33.2 27.6	86.4 61.0
	<i>RPD</i>				34.7%	37.0%	6.7%	18.4% 34.5%
2	1/7/04 2:54 PM 1/7/04 2:57 PM	1/7/04 9:20 AM 1/7/04 9:20 AM	NORMAL DUPLICATE	4.02 3.79	3.57 3.50	0.67 0.64	4.32 3.59	22.7 20.3
	<i>RPD</i>				5.9%	2.0%	4.3%	18.5% 11.2%
3	1/8/04 2:16 PM 1/8/04 2:22 PM	1/8/04 9:18 AM 1/8/04 9:18 AM	NORMAL DUPLICATE	658 822	182 185	27.4 33.2	285 468	2360 2690
	<i>RPD</i>				22%	1%	19.1% 48%	13%
4	1/8/04 3:51 PM 1/8/04 3:57 PM	1/8/04 9:20 AM 1/8/04 9:20 AM	NORMAL DUPLICATE	108 31.4	25.4 9.02	2.77 2.21	104 50.0	315 88.4
	<i>RPD</i>				109%	95.2%	22.5% 70%	112%
5	1/12/04 3:54 PM 1/12/04 3:57 PM	1/12/04 12:13 PM 1/12/04 12:13 PM	NORMAL DUPLICATE	1.02 1.19	0.72 0.73	0.62 0.57	0.87 0.78	1.72 1.48
	<i>RPD</i>				15.4%	1.7%	7.6% 11%	15.0%
6	1/12/04 4:06 PM 1/12/04 4:09 PM	1/12/04 12:27 PM 1/12/04 12:27 PM	NORMAL DUPLICATE	2.09 2.02	2.17 2.10	0.79 0.75	1.73 1.77	6.09 5.86
	<i>RPD</i>				3.4%	3.3%	4.9% 2.3%	3.8%
7	1/12/04 5:05 PM 1/12/04 5:08 PM	1/12/04 11:12 AM 1/12/04 11:12 AM	NORMAL DUPLICATE	2.84 2.92	1.80 1.81	0.63 0.59	2.77 2.74	9.66 9.98
	<i>RPD</i>				2.8%	0.6%	6.9% 1.1%	3.3%
8	1/13/04 9:48 AM 1/13/04 9:51 AM	1/12/04 8:58 AM 1/12/04 8:58 AM	NORMAL DUPLICATE	8.34 10.9	5.49 6.75	1.08 1.23	6.23 10.6	47.6 63.3
	<i>RPD</i>				26.6%	20.6%	13.0% 51.9%	28.3%
9	2/2/04 12:55 PM 2/2/04 1:01 PM	2/2/04 9:47 AM 2/2/04 9:47 AM	NORMAL DUPLICATE	2.14 2.23	1.63 1.69	1.28 1.26	1.93 1.92	6.88 7.05
	<i>RPD</i>				4.1%	3.6%	1.6% 0.5%	2.4%
10	2/2/04 1:33 PM 2/2/04 1:36 PM	2/2/04 10:40 AM 2/2/04 10:40 AM	NORMAL DUPLICATE	1.75 1.79	2.00 2.18	0.66 0.66	0.95 1.06	3.58 4.20
	<i>RPD</i>				2.3%	9%	0.0% 11%	16%
11	2/2/04 1:57 PM 2/2/04 2:00 PM	2/2/04 10:25 AM 2/2/04 10:25 AM	NORMAL DUPLICATE	0.92 0.88	0.58 0.53	0.27 0.26	0.60 0.44	1.21 0.86
	<i>RPD</i>				4.0%	9.5%	6.4% 32%	34%

Table A-1. (continued).

	ANALYSIS DATE	SAMPLE DATE	TYPE	CHCL3	TCA	PCE	TCE	CCL4
12	2/3/04 12:29 PM	2/3/04 8:33 AM	NORMAL	1.18	1.02	0.88	1.62	4.04
	2/3/04 12:32 PM	2/3/04 8:33 AM	DUPLICATE	1.08	0.92	0.74	0.92	2.03
	<i>RPD</i>			8.8%	11%	17%	55%	66.2%
13	2/3/04 2:29 PM	2/3/04 9:35 AM	NORMAL	16.8	9.30	6.03	31.8	65.4
	2/3/04 2:32 PM	2/3/04 9:35 AM	DUPLICATE	11.1	5.83	5.29	24.7	41.6
	<i>RPD</i>			40.9%	45.9%	13.1%	25.1%	44.5%
14	2/4/04 10:48 AM	2/3/04 3:16 PM	NORMAL	15.7	10.3	3.36	17.6	93.4
	2/4/04 10:51 AM	2/3/04 3:16 PM	DUPLICATE	17.7	12.1	3.67	18.4	114
	<i>RPD</i>			12.0%	16.1%	8.8%	4.4%	20%
15	2/4/04 11:18 AM	2/3/04 3:07 PM	NORMAL	12.4	18.6	5.61	22.5	37.1
	2/4/04 11:21 AM	2/3/04 3:07 PM	DUPLICATE	12.1	18.1	6.17	24.4	37.3
	<i>RPD</i>			2.4%	2.7%	9.5%	8.1%	0.5%
16	2/4/04 2:15 PM	2/3/04 3:47 PM	NORMAL	753	180	26.1	417	2520
	2/4/04 2:21 PM	2/3/04 3:47 PM	DUPLICATE	823	254	45.7	480	4030
	<i>RPD</i>			9%	34%	55%	14%	46%
17	3/1/04 3:58 PM	3/1/04 10:43 AM	NORMAL	16.1	7.81	1.94	21.5	57
	3/1/04 4:02 PM	3/1/04 10:43 AM	DUPLICATE	11.8	6.05	1.88	18.5	42
	<i>RPD</i>			30.8%	25.4%	3.1%	15.0%	30%
18	3/2/04 9:29 AM	3/2/04 10:32 AM	NORMAL	29.6	12.6	6.63	40.0	110
	3/2/04 9:32 AM	3/2/04 10:32 AM	DUPLICATE	23.9	9.80	5.73	34.7	86.1
	<i>RPD</i>			21.3%	25%	14.6%	14%	24%
19	3/2/04 9:50 AM	3/1/04 11:38 AM	NORMAL	17.5	11.6	3.52	14.8	94.1
	3/2/04 9:53 AM	3/1/04 11:38 AM	DUPLICATE	19.4	13.0	3.49	18.3	122
	<i>RPD</i>			10.3%	11%	0.9%	21.1%	26%
20	3/2/04 11:59 AM	3/1/04 8:20 AM	NORMAL	33.7	13.0	1.69	37.8	141
	3/2/04 12:05 PM	3/1/04 8:20 AM	DUPLICATE	27.9	10.6	1.70	34.4	114
	<i>RPD</i>			18.8%	20%	0.6%	9.4%	21%
21	3/2/04 3:34 PM	3/2/04 11:52 AM	NORMAL	0.97	0.95	0.22	0.58	1.64
	3/2/04 3:39 PM	3/2/04 11:52 AM	DUPLICATE	1.29	0.83	0.22	0.49	1.65
	<i>RPD</i>			28%	13%	0.4%	16%	0.6%
22	3/2/04 3:42 PM	3/2/04 11:21 AM	NORMAL	1.73	1.94	0.37	0.86	3.76
	3/2/04 3:45 PM	3/2/04 11:21 AM	DUPLICATE	1.59	2.24	0.37	0.93	4.33
	<i>RPD</i>			8.4%	14.4%	1.1%	8.1%	14.1%

Table A-1. (continued).

	ANALYSIS DATE	SAMPLE DATE	TYPE	CHCL3	TCA	PCE	TCE	CCL4
23	3/2/04 4:30 PM	3/2/04 8:26 AM	NORMAL	2.03	1.26	0.50	0.89	3.47
	3/2/04 4:33 PM	3/2/04 8:26 AM	DUPLICATE	1.98	1.28	0.18	0.89	3.38
	<i>RPD</i>			2.5%	1.6%	93%	0.2%	2.6%
24	3/2/04 5:39 PM	3/2/04 9:25 AM	NORMAL	1.56	0.63	0.07	0.47	1.40
	3/2/04 5:42 PM	3/2/04 9:25 AM	DUPLICATE	1.33	0.59	0.09	0.37	1.01
	<i>RPD</i>			15.9%	6.9%	22%	25%	32.4%
25	3/4/04 12:45 PM	3/2/04 9:54 AM	NORMAL	1.51	0.92	0.28	0.51	1.34
	3/4/04 12:48 PM	3/2/04 9:54 AM	DUPLICATE	1.30	0.84	0.27	0.35	1.15
	<i>RPD</i>			14.9%	9.9%	4.7%	38%	15.3%
26	4/5/04 12:22 PM	4/5/04 9:55 AM	NORMAL	55.5	17.0	6.06	73.8	179
	4/5/04 12:28 PM	4/5/04 9:55 AM	DUPLICATE	47.3	14.5	5.65	65.3	146
	<i>RPD</i>			16.0%	16%	7.0%	12.2%	20%
27	4/5/04 2:49 PM	4/5/04 9:28 AM	NORMAL	823	186	22.2	491	2460
	4/5/04 2:55 PM	4/5/04 9:28 AM	DUPLICATE	257	37.5	3.41	235	468
	<i>RPD</i>			105%	133%	150%	71%	140%
28	4/7/04 8:43 AM	4/6/04 12:12 PM	NORMAL	15.4	10.1	2.54	14.1	93.4
	4/7/04 8:46 AM	4/6/04 12:12 PM	DUPLICATE	13.9	8.74	2.37	13.3	78.8
	<i>RPD</i>			10.2%	14.4%	6.9%	5.8%	17.0%
29	4/7/04 8:52 AM	4/6/04 9:52 AM	NORMAL	3.57	1.47	1.00	3.63	7.45
	4/7/04 8:55 AM	4/6/04 9:52 AM	DUPLICATE	2.79	1.15	0.91	2.48	4.32
	<i>RPD</i>			24.5%	24.4%	9%	37.6%	53.2%
30	4/7/04 11:31 AM	4/6/04 9:41 AM	NORMAL	6.48	3.96	1.03	4.67	16.2
	4/7/04 11:33 AM	4/6/04 9:41 AM	DUPLICATE	6.97	4.32	1.03	5.30	17.1
	<i>RPD</i>			7.3%	8.7%	0.0%	12.6%	5.4%
31	4/8/04 1:59 PM	4/8/04 11:08 AM	NORMAL	3.33	3.40	1.02	2.02	5.96
	4/8/04 2:02 PM	4/8/04 11:08 AM	DUPLICATE	3.05	3.21	0.88	1.75	5.63
	<i>RPD</i>			8.8%	5.7%	15%	14.3%	5.7%
32	4/8/04 2:38 PM	4/8/04 10:52 AM	NORMAL	1.79	0.70	0.21	0.59	1.16
	4/8/04 2:41 PM	4/8/04 10:52 AM	DUPLICATE	1.68	0.70	0.18	0.38	0.52
	<i>RPD</i>			6.3%	1%	17%	43%	77%
33	4/8/04 3:26 PM	4/8/04 10:23 AM	NORMAL	1.86	0.82	0.15	0.43	1.12
	4/8/04 3:29 PM	4/8/04 10:23 AM	DUPLICATE	1.96	0.83	0.13	0.35	1.19
	<i>RPD</i>			5.2%	0.7%	13%	21%	6.1%

Table A-1. (continued).

	ANALYSIS DATE	SAMPLE DATE	TYPE	CHCL3	TCA	PCE	TCE	CCL4
34	5/4/04 10:27 AM	5/3/04 11:04 AM	NORMAL	2.92	2.84	1.16	1.48	4.61
	5/4/04 10:30 AM	5/3/04 11:04 AM	DUPLICATE	2.93	2.94	1.05	1.43	5.04
	<i>RPD</i>			0.3%	3.5%	10.0%	3.4%	8.9%
35	5/4/04 10:39 AM	5/3/04 10:54 AM	NORMAL	1.75	1.03	0.71	0.60	1.09
	5/4/04 10:42 AM	5/3/04 10:54 AM	DUPLICATE	1.88	1.04	0.58	0.54	0.86
	<i>RPD</i>			7.2%	1.0%	21%	11%	23%
36	5/4/04 12:00 PM	5/3/04 10:13 AM	NORMAL	3.56	1.49	0.67	1.48	2.24
	5/4/04 12:03 PM	5/3/04 10:13 AM	DUPLICATE	3.17	1.38	0.35	1.08	2.41
	<i>RPD</i>			11.6%	7.7%	62%	31.3%	7.3%
37	5/4/04 12:12 PM	5/4/04 7:39 AM	NORMAL	8.94	7.04	2.98	10.9	28.6
	5/4/04 12:15 PM	5/4/04 7:39 AM	DUPLICATE	6.67	5.26	2.88	9.25	21.4
	<i>RPD</i>			29.1%	28.9%	3.4%	16.4%	28.8%
38	5/4/04 12:42 PM	5/4/04 7:51 AM	NORMAL	7.41	5.18	1.90	6.85	18.5
	5/4/04 12:45 PM	5/4/04 7:51 AM	DUPLICATE	6.62	4.33	1.70	6.46	15.3
	<i>RPD</i>			11.3%	17.9%	11%	5.9%	18.9%
39	5/5/04 10:17 AM	5/5/04 7:35 AM	NORMAL	11.1	5.51	2.24	5.33	23.2
	5/5/04 10:20 AM	5/5/04 7:35 AM	DUPLICATE	10.8	5.72	2.44	5.55	25.1
	<i>RPD</i>			2.7%	3.7%	8.5%	4.0%	7.9%
40	5/12/04 10:47 AM	5/10/04 9:16 AM	NORMAL	9.70	2.34	0.38	5.64	14.8
	5/12/04 10:50 AM	5/10/04 9:16 AM	DUPLICATE	72.3	11.0	0.93	37.3	97.9
	<i>RPD</i>			150%	130%	83%	148%	148%
41	6/8/04 2:06 PM	6/7/04 1:30 PM	NORMAL	3.30	2.10	0.45	1.55	7.09
	6/8/04 2:09 PM	6/7/04 1:30 PM	DUPLICATE	8.00	4.76	0.82	4.04	22.2
	<i>RPD</i>			80%	78%	58%	89.1%	103%
42	6/10/04 3:15 PM	6/9/04 12:02 PM	NORMAL	2.82	1.50	0.23	0.35	0.56
	6/10/04 3:18 PM	6/9/04 12:02 PM	DUPLICATE	2.52	1.47	0.20	0.43	0.69
	<i>RPD</i>			11.2%	2.0%	14%	23%	21%
43	6/10/04 4:09 PM	6/9/04 12:00 PM	NORMAL	3.27	1.28	0.36	0.61	0.95
	6/10/04 4:12 PM	6/9/04 12:00 PM	DUPLICATE	2.83	1.09	0.21	0.40	0.23
	<i>RPD</i>			14.4%	16.0%	55%	40%	120%
44	6/15/04 1:15 PM	6/14/04 12:05 PM	NORMAL	2.53	1.71	1.17	0.78	0.85
	6/15/04 1:19 PM	6/14/04 12:05 PM	DUPLICATE	2.17	1.38	0.73	0.45	0.44
	<i>RPD</i>			15.3%	21%	47%	53%	64%

Table A-1. (continued).

	ANALYSIS DATE	SAMPLE DATE	TYPE	CHCL3	TCA	PCE	TCE	CCL4
45	6/15/04 2:21 PM	6/14/04 2:20 PM	NORMAL	3.76	1.91	1.18	2.03	1.66
	6/15/04 2:24 PM	6/14/04 2:20 PM	DUPLICATE	3.23	1.67	0.51	1.14	2.15
	<i>RPD</i>			15.2%	13.4%	80%	56.2%	25.7%
46	6/15/04 2:46 PM	6/14/04 2:00 PM	NORMAL	2.28	1.49	0.35	0.55	0.90
	6/15/04 2:50 PM	6/14/04 2:00 PM	DUPLICATE	2.45	1.39	0.30	0.51	0.82
	<i>RPD</i>			7.2%	6.9%	16%	6.0%	9.0%
47	6/15/04 3:16 PM	6/14/04 3:05 PM	NORMAL	3.59	3.09	0.63	1.38	4.79
	6/15/04 3:19 PM	6/14/04 3:05 PM	DUPLICATE	3.37	3.21	0.57	1.37	4.77
	<i>RPD</i>			6.3%	3.8%	9.0%	0.7%	0.4%

Table A-2. Sample repeats during the mid-year 2004 operational period.

	ANALYSIS DATE	SAMPLE DATE	TYPE	CHCL3	TCA	PCE	TCE	CCL4
1	1/7/04 1:24 PM	1/7/04 10:18 AM	NORMAL	153	64.4	13.4	97.3	505
	1/7/04 1:30 PM	1/7/04 10:18 AM	REPEAT	152	64.2	13.1	96.8	505
	<i>RPD</i>			1%	0.3%	2.3%	0.5%	0%
2	1/7/04 2:06 PM	1/7/04 9:36 AM	NORMAL	5.20	2.92	1.10	8.41	27.4
	1/7/04 2:09 PM	1/7/04 9:36 AM	REPEAT	5.15	2.82	1.07	8.32	27.2
	<i>RPD</i>			1.0%	3.5%	2.8%	1.1%	0.7%
3	1/7/04 2:42 PM	1/7/04 9:50 AM	NORMAL	130	50.3	9.75	74.3	579
	1/7/04 2:48 PM	1/7/04 9:50 AM	REPEAT	130	50.6	9.83	75.3	584
	<i>RPD</i>			0%	0.6%	0.8%	1.3%	1%
4	1/7/04 3:24 PM	1/6/04 11:00 AM	NORMAL	43.7	13.1	1.62	39.7	150
	1/7/04 3:27 PM	1/6/04 11:00 AM	REPEAT	43.9	13.2	1.58	39.9	150
	<i>RPD</i>			0.5%	0.8%	2.5%	0.5%	0%
5	1/8/04 2:01 PM	1/8/04 10:03 AM	NORMAL	7.13	2.24	1.50	13.0	24.3
	1/8/04 2:04 PM	1/8/04 10:03 AM	REPEAT	7.08	2.26	1.39	12.9	24.2
	<i>RPD</i>			0.7%	0.9%	7.6%	0.8%	0.4%
6	1/8/04 2:43 PM	1/8/04 9:12 AM	NORMAL	128	25.3	2.71	126	343
	1/8/04 2:52 PM	1/8/04 9:17 AM	REPEAT	127	25.3	2.53	124	338
	<i>RPD</i>			1%	0.0%	6.9%	2%	2%
7	1/8/04 3:27 PM	1/8/04 9:51 AM	NORMAL	6.67	1.98	0.76	12.8	22.2
	1/8/04 3:31 PM	1/8/04 9:51 AM	REPEAT	7.15	1.98	0.87	13.4	23.4
	<i>RPD</i>			6.9%	0.0%	13%	4.6%	5.3%
8	1/12/04 3:45 PM	1/12/04 12:16 PM	NORMAL	2.46	1.93	1.02	2.14	5.84
	1/12/04 3:48 PM	1/12/04 12:16 PM	REPEAT	2.52	1.77	0.97	2.09	5.82
	<i>RPD</i>			2.4%	8.6%	5.4%	2.4%	0.3%
9	1/12/04 4:18 PM	1/12/04 11:30 AM	NORMAL	1.46	0.92	0.53	1.18	3.21
			REPEAT	1.36	0.92	0.50	0.95	3.14
	<i>RPD</i>			7.1%	0.7%	4.8%	22%	2.2%
10	1/12/04 4:20 PM	1/12/04 11:30 AM	NORMAL	1.36	0.92	0.50	0.95	3.14
	1/12/04 4:24 PM	1/12/04 11:31 AM	REPEAT	1.60	1.19	0.54	1.37	5.07
	<i>RPD</i>			16.2%	26%	6.3%	37%	47.0%
11	1/12/04 4:50 PM	1/12/04 8:19 AM	NORMAL	1.75	1.66	0.50	1.04	2.89
	1/12/04 4:53 PM	1/12/04 8:19 AM	REPEAT	1.75	1.56	0.52	1.03	2.92
	<i>RPD</i>			0.0%	6.2%	3.1%	1.0%	1.0%

Table A-2. (continued).

	ANALYSIS DATE	SAMPLE DATE	TYPE	CHCL3	TCA	PCE	TCE	CCL4
12	1/13/04 8:57 AM 1/13/04 9:00 AM	1/12/04 8:41 AM 1/12/04 8:41 AM	NORMAL REPEAT	5.93 5.73	4.44 4.39	1.47 1.41	5.96 5.64	24.9 24.3
	<i>RPD</i>			3.4%	1.1%	4.2%	5.5%	2.4%
13	1/13/04 9:30 AM 1/13/04 9:33 AM	1/12/04 12:42 PM 1/12/04 12:42 PM	NORMAL REPEAT	2.52 2.62	2.16 2.24	0.89 0.84	2.51 2.52	6.54 6.51
	<i>RPD</i>			3.9%	3.6%	6.0%	0.4%	0.5%
14	1/29/04 11:44 AM 1/29/04 11:47 AM	1/29/04 7:50 AM 1/29/04 7:50 AM	NORMAL REPEAT	29.8 29.6	17.8 17.9	11.9 11.7	39.5 39.5	72.1 72.2
	<i>RPD</i>			0.7%	0.6%	1.7%	0.0%	0.1%
15	2/2/04 12:55 PM 2/2/04 12:58 PM	2/2/04 9:47 AM 2/2/04 9:47 AM	NORMAL REPEAT	2.14 2.24	1.63 1.78	1.28 1.44	1.93 2.05	6.88 6.96
	<i>RPD</i>			4.6%	8.8%	11.8%	6.0%	1.2%
16	2/2/04 1:25 PM 2/2/04 1:27 PM	2/2/04 10:54 AM 2/2/04 10:54 AM	NORMAL REPEAT	1.09 1.12	1.08 1.06	0.68 0.63	1.03 1.00	2.35 2.31
	<i>RPD</i>			2.7%	1.9%	8.7%	3.0%	1.7%
17	2/2/04 1:51 PM 2/2/04 1:54 PM	2/2/04 10:21 AM 2/2/04 10:21 AM	NORMAL REPEAT	2.57 2.54	1.90 1.91	0.60 0.65	1.62 1.60	4.72 4.73
	<i>RPD</i>			1.2%	0.5%	8%	1.2%	0.2%
18	2/2/04 2:21 PM 2/2/04 2:24 PM	2/2/04 10:06 AM 2/2/04 10:06 AM	NORMAL REPEAT	1.56 1.80	0.89 0.90	0.31 0.32	0.63 0.61	2.11 2.13
	<i>RPD</i>			14.3%	1.9%	1.9%	4.0%	0.9%
19	2/2/04 2:30 PM 2/2/04 2:33 PM	2/2/04 9:43 AM 2/2/04 9:43 AM	NORMAL REPEAT	0.78 0.87	0.55 0.33	0.16 0.14	0.21 0.30	0.46 0.42
	<i>RPD</i>			11%	49%	13%	36%	8.9%
20	2/2/04 2:51 PM 2/2/04 2:54 PM	2/2/04 9:20 AM 2/2/04 9:20 AM	NORMAL REPEAT	1.25 1.32	0.80 0.71	0.30 0.19	0.40 0.51	1.03 0.98
	<i>RPD</i>			5.4%	12%	42%	25%	5.2%
21	2/2/04 3:09 PM 2/2/04 3:12 PM	2/2/04 3:09 PM 2/2/04 3:12 PM	1 PPM 1 PPM MIX MIX RPT	1.01 1.11	2.31 2.19	1.08 1.00	1.00 1.03	1.05 0.98
	<i>RPD</i>			9.4%	5.3%	8.1%	3.3%	7.4%
22	2/3/04 12:23 PM 2/3/04 12:26 PM	2/3/04 8:32 AM 2/3/04 8:32 AM	NORMAL REPEAT	44.8 44.9	17.1 17.2	3.94 3.79	39.5 40	145 146
	<i>RPD</i>			0.2%	0.6%	3.9%	1%	1%

Table A-2. (continued).

	ANALYSIS DATE	SAMPLE DATE	TYPE	CHCL3	TCA	PCE	TCE	CCL4
23	2/3/04 12:53 PM	2/3/04 8:39 AM	NORMAL	20.7	6.95	3.03	27.3	65.7
	2/3/04 12:56 PM	2/3/04 8:39 AM	REPEAT	20.1	6.69	2.92	26.7	63.7
	<i>RPD</i>			2.9%	3.8%	3.7%	2.2%	3.1%
24	2/3/04 2:11 PM	2/3/04 9:26 AM	NORMAL	28.6	6.06	1.76	45.2	93.9
	2/3/04 2:14 PM	2/3/04 9:26 AM	REPEAT	28.8	6.11	1.71	46.2	94.6
	<i>RPD</i>			0.7%	0.8%	2.9%	2.2%	0.7%
25	2/4/04 9:57 AM	2/4/04 9:57 AM	1 PPM MIX	1.27	2.45	1.30	1.31	1.30
	2/4/04 10:00 AM	2/4/04 10:00 AM	1 PPM MIX RPT	1.51	2.51	1.20	1.22	1.01
	<i>RPD</i>			17.3%	2.4%	8.0%	7.1%	25%
26	2/4/04 10:27 AM	2/3/04 4:25 PM	NORMAL	7.38	2.63	2.57	12.5	26.7
	2/4/04 10:30 AM	2/3/04 4:25 PM	REPEAT	7.36	2.66	2.27	12.6	26.9
	<i>RPD</i>			0.3%	1.1%	12.4%	0.8%	0.7%
27	2/4/04 11:06 AM	2/3/04 3:00 PM	NORMAL	9.63	6.94	2.66	10.3	31.7
	2/4/04 11:09 AM	2/3/04 3:00 PM	REPEAT	9.68	7.05	2.58	10.4	31.6
	<i>RPD</i>			0.5%	1.6%	3.1%	1.0%	0.3%
28	2/4/04 11:33 AM	2/3/04 1:57 PM	NORMAL	7.09	4.94	1.58	7.67	26.6
	2/4/04 11:36 AM	2/3/04 1:57 PM	REPEAT	7.1	4.92	1.54	7.58	26.5
	<i>RPD</i>			0.1%	0.4%	2.6%	1.2%	0.4%
29	2/4/04 1:33 PM	2/3/04 4:10 PM	NORMAL	18.5	10.5	3.58	21.9	39.5
	2/4/04 1:36 PM	2/3/04 4:10 PM	REPEAT	18.4	10.5	3.60	22	39.3
	<i>RPD</i>			0.5%	0.0%	0.6%	1%	0.5%
30	2/5/04 10:27 AM	2/5/04 10:27 AM	1 PPM MIX	1.13	2.47	1.15	1.12	1.22
	2/5/04 10:30 AM	2/5/04 10:30 AM	1 PPM MIX RPT	1.24	2.49	1.06	1.15	1.21
	<i>RPD</i>			9.3%	0.8%	8.1%	2.6%	0.8%
31	2/19/04 10:14 AM	2/19/04 7:30 AM	NORMAL	45.7	24.4	11.3	58.6	210
	2/19/04 10:19 AM	2/19/04 7:30 AM	REPEAT	45.6	24.2	11	57.5	207
	<i>RPD</i>			0.2%	0.8%	3%	1.9%	1%
32	2/26/04 9:21 AM	2/26/04 9:21 AM	1 PPM MIX	1.22	2.46	1.28	1.32	1.44
	2/26/04 9:24 AM	2/26/04 9:24 AM	1 PPM MIX RPT	1.4	2.47	1.19	1.12	1.07
	<i>RPD</i>			14%	0.4%	7.3%	16.4%	29.5%

Table A-2. (continued).

	ANALYSIS DATE	SAMPLE DATE	TYPE	CHCL3	TCA	PCE	TCE	CCL4
33	3/1/04 3:19 PM 3/1/04 3:22 PM	3/1/04 11:35 AM 3/1/04 11:35 AM	NORMAL REPEAT	8.42 8.01	5.31 5.41	2.26 2.31	10.1 10.1	23.3 23.4
	<i>RPD</i>			5.0%	1.9%	2.2%	0.0%	0.4%
34	3/1/04 3:52 PM 3/1/04 3:55 PM	3/1/04 10:53 AM 3/1/04 10:53 AM	NORMAL REPEAT	12.6 12.6	8.41 8.37	2.93 2.99	15.4 15.3	26.2 26.1
	<i>RPD</i>			0.0%	0.5%	2.0%	0.7%	0.4%
35	3/2/04 9:35 AM 3/2/04 9:38 AM	3/1/04 10:33 AM 3/1/04 10:33 AM	NORMAL REPEAT	19.6 19.5	7.65 7.48	4.39 3.84	31.1 30.7	71.9 71.5
	<i>RPD</i>			0.5%	2.2%	13.4% 1.3%	0.6%	
36	3/2/04 9:56 AM 3/2/04 9:59 AM	3/1/04 11:42 AM 3/1/04 11:42 AM	NORMAL REPEAT	20.3 20.2	6.59 6.6	2.42 2.3	14.5 14.5	56.9 56.1
	<i>RPD</i>			0.5%	0.2%	5.1% 0.0%	1.4%	
37	3/2/04 10:53 AM 3/2/04 10:56 AM	3/1/04 9:14 AM 3/1/04 9:14 AM	NORMAL REPEAT	54.6 55.0	13.7 13.9	2.19 2.12	78 79.1	188 190
	<i>RPD</i>			0.7%	1.4%	3.2% 1%	1%	
38	3/2/04 11:14 AM 3/2/04 11:17 AM	3/1/04 10:09 AM 3/1/04 10:09 AM	NORMAL REPEAT	10.8 10.9	3.85 3.76	0.91 0.94	15.4 15.1	40.2 39.5
	<i>RPD</i>			0.9%	2.4%	3.0% 2.0%	1.8%	
39	3/2/04 11:59 AM 3/2/04 12:02 PM	3/1/04 8:20 AM 3/1/04 8:20 AM	NORMAL REPEAT	33.7 34.0	13.0 13.2	1.69 1.74	37.8 38.5	141 142
	<i>RPD</i>			0.9%	1.5%	2.9% 1.8%	1%	
40	3/2/04 12:20 PM 3/2/04 12:23 PM	3/1/04 11:19 AM 3/1/04 11:19 AM	NORMAL REPEAT	6.58 6.46	3.28 3.22	1.04 1.00	10.0 9.55	25.9 25.1
	<i>RPD</i>			1.8%	1.8%	3.9% 4.6%	3.1%	
41	3/2/04 12:32 PM 3/2/04 12:35 PM	3/1/04 11:21 AM 3/1/04 11:21 AM	NORMAL REPEAT	5.46 5.56	4.83 4.83	1.79 1.82	7.37 7.39	16.7 16.5
	<i>RPD</i>			1.8%	0.0%	1.7% 0.3%	1.2%	
42	3/2/04 3:34 PM 3/2/04 3:36 PM	3/2/04 11:52 AM 3/2/04 11:52 AM	NORMAL REPEAT	0.97 1.01	0.95 0.84	0.22 0.21	0.58 0.61	1.64 1.72
	<i>RPD</i>			3.6%	13%	7.0% 6.1%	4.8%	
43	3/2/04 4:12 PM 3/2/04 4:15 PM	3/2/04 8:29 AM 3/2/04 8:29 AM	NORMAL REPEAT	1.28 1.42	0.76 0.51	0.13 0.14	0.43 0.44	1.85 1.75
	<i>RPD</i>			10.4%	40%	12% 2.3%	5.6%	

Table A-2. (continued).

	ANALYSIS DATE	SAMPLE DATE	TYPE	CHCL3	TCA	PCE	TCE	CCL4
44	3/2/04 4:42 PM	3/2/04 8:11 AM	NORMAL	1.44	0.82	0.14	0.40	1.16
	3/2/04 4:45 PM	3/2/04 8:11 AM	REPEAT	1.55	0.88	0.19	0.53	1.11
	<i>RPD</i>			7.4%	7.4%	32%	29%	4.4%
45	3/4/04 12:00 PM	3/2/04 7:10 AM	NORMAL	10.2	8.19	4.39	14.8	42.6
	3/4/04 12:03 PM	3/2/04 7:10 AM	REPEAT	10.3	8.14	4.25	14.7	42.6
	<i>RPD</i>			1.0%	0.6%	3.2%	0.7%	0.0%
46	3/4/04 12:28 PM	3/2/04 7:52 AM	NORMAL	1.65	0.99	0.32	0.54	1.87
	3/4/04 12:30 PM	3/2/04 7:52 AM	REPEAT	1.79	1.13	0.37	0.53	1.97
	<i>RPD</i>			8.1%	13%	14%	1.9%	5.2%
47	3/4/04 12:37 PM	3/2/04 9:52 AM	NORMAL	1.30	0.63	0.30	0.53	1.2
	3/4/04 12:39 PM	3/2/04 9:52 AM	REPEAT	1.47	0.72	0.33	0.43	1.18
	<i>RPD</i>			12.3%	13%	8.6%	22%	1.7%
48	3/4/04 1:03 PM	3/2/04 11:10 AM	NORMAL	2.54	1.79	0.54	0.95	3.65
	3/4/04 1:07 PM	3/2/04 11:10 AM	REPEAT	2.64	1.81	0.37	1.03	3.64
	<i>RPD</i>	<i>RPD</i>		3.9%	1.1%	36%	8.2%	0.3%
49	3/4/04 1:39 PM	3/4/04 9:17 AM	NORMAL	5.21	3.89	0.59	3.09	12.1
	3/4/04 1:42 PM	3/4/04 9:17 AM	REPEAT	5.27	3.83	0.65	3.14	12.2
	<i>RPD</i>			1.1%	1.6%	10%	1.6%	0.8%
50	3/11/04 11:45 AM	3/10/04 7:45 AM	NORMAL	16.4	13.5	7.85	25.3	70.8
	3/11/04 11:48 AM	3/10/04 7:45 AM	REPEAT	16.6	13.5	7.56	25.5	71.4
	<i>RPD</i>			1.2%	0.0%	3.8%	0.8%	0.8%
51	3/18/04 11:52 AM	3/16/04 7:05 AM	NORMAL	16.6	12.0	7.59	23.3	61.3
	3/18/04 11:55 AM	3/16/04 7:05 AM	REPEAT	16.8	11.9	7.08	23.2	61.2
	<i>RPD</i>			1.2%	1%	7.0%	0.4%	0.2%
52	3/25/04 11:28 AM	3/25/04 11:28 AM	100 PPM MIX	111	191	103	100	86.7
	3/25/04 11:31 AM	3/25/04 11:31 AM	100 PPM MIX RPT	112	193	107	103	88.6
	<i>RPD</i>			1%	1%	4%	3%	2%
53	4/1/04 10:17 AM	3/30/04 8:10 AM	NORMAL	11.0	10.0	7.39	19.1	34.9
	4/1/04 10:20 AM	3/30/04 8:10 AM	REPEAT	10.9	9.77	6.76	18.9	34.5
	<i>RPD</i>			0.9%	2.3%	8.9%	1.1%	1.2%
54	4/5/04 12:22 PM	4/5/04 9:55 AM	NORMAL	55.5	17.0	6.06	73.8	179
	4/5/04 12:25 PM	4/5/04 9:55 AM	REPEAT	55.6	17.1	6.08	74.7	180
	<i>RPD</i>			0.2%	0.6%	0.3%	1.2%	1%

Table A-2. (continued).

	ANALYSIS DATE	SAMPLE DATE	TYPE	CHCL3	TCA	PCE	TCE	CCL4
55	4/5/04 12:47 PM 4/5/04 12:49 PM	4/5/04 9:37 AM 4/5/04 9:37 AM	NORMAL REPEAT	21.2 21.4	4.05 4.16	1.86 1.93	40.6 40.4	58.8 58.6
	<i>RPD</i>			0.9%	2.7%	3.7%	0.5%	0.3%
56	4/5/04 1:01 PM 4/5/04 1:04 PM	4/5/04 9:43 AM 4/5/04 9:43 AM	NORMAL REPEAT	44.7 40.5	17.7 16.2	3.66 3.29	59.1 53.7	181 166
	<i>RPD</i>			9.9%	8.8%	10.6%	9.6%	9%
57	4/5/04 1:25 PM 4/5/04 1:28 PM	4/5/04 10:22 AM 4/5/04 10:22 AM	NORMAL REPEAT	8.94 8.88	3.67 3.60	1.70 1.73	15.1 14.9	31.2 31.0
	<i>RPD</i>			0.7%	1.9%	1.7%	1.3%	1%
58	4/5/04 2:25 PM 4/5/04 2:28 PM	4/5/04 9:06 AM 4/5/04 9:06 AM	NORMAL REPEAT	45.0 45.2	13.6 13.6	3.01 2.93	75.3 76	141 140
	<i>RPD</i>			0%	0.0%	2.7%	1%	1%
59	4/7/04 8:25 AM 4/7/04 8:28 AM	4/5/04 9:17 AM 4/5/04 9:17 AM	NORMAL REPEAT	56.1 56.7	12.4 12.5	3.11 2.74	59.3 60.3	171 173
	<i>RPD</i>			1.1%	0.8%	12.6%	1.7%	1%
60	4/7/04 9:04 AM 4/7/04 9:07 AM	4/6/04 9:55 AM 4/6/04 9:55 AM	NORMAL REPEAT	8.28 8.33	5.29 5.26	1.58 1.54	5.95 6.09	25.3 25.5
	<i>RPD</i>			0.6%	0.6%	2.6%	2.3%	0.8%
61	4/7/04 9:34 AM 4/7/04 9:37 AM	4/6/04 9:25 AM 4/6/04 9:25 AM	NORMAL REPEAT	4.26 4.28	3.77 3.82	1.01 0.93	2.46 2.38	5.5 5.55
	<i>RPD</i>			0.5%	1.3%	7.5%	3.3%	0.9%
62	4/7/04 9:57 AM 4/7/04 10:00 AM	4/6/04 8:44 AM 4/6/04 8:44 AM	NORMAL REPEAT	5.39 5.52	1.7 1.81	0.70 0.77	4.33 4.23	8.21 8.15
	<i>RPD</i>			2.4%	6.3%	9.6%	2.3%	0.7%
63	4/7/04 10:09 AM 4/7/04 10:12 AM	4/6/04 8:54 AM 4/6/04 8:54 AM	NORMAL REPEAT	9.47 9.43	4.26 4.24	1.04 0.97	7.84 7.77	28.2 27.7
	<i>RPD</i>			0.4%	0.5%	7.3%	0.9%	1.8%
64	4/7/04 10:33 AM 4/7/04 10:36 AM	4/6/04 9:00 AM 4/6/04 9:00 AM	NORMAL REPEAT	3.01 2.98	1.19 1.1	0.44 0.45	3.37 3.26	7.85 7.61
	<i>RPD</i>			1.0%	7.9%	0.9%	3.3%	3.1%
65	4/7/04 10:57 AM 4/7/04 11:00 AM	4/6/04 12:23 PM 4/6/04 12:23 PM	NORMAL REPEAT	6.25 6.39	3.9 3.98	1.24 1.23	7.1 7.14	18 18
	<i>RPD</i>			2.2%	2.0%	0.8%	0.6%	0%

Table A-2. (continued).

	ANALYSIS DATE	SAMPLE DATE	TYPE	CHCL3	TCA	PCE	TCE	CCL4
66	4/7/04 11:12 AM	4/6/04 9:17 AM	NORMAL	2.75	1.15	0.41	1.83	3.89
	4/7/04 11:15 AM	4/6/04 9:17 AM	REPEAT	2.89	1.08	0.35	1.79	3.72
	<i>RPD</i>			5.0%	6.3%	15%	2.2%	4.5%
67	4/7/04 11:24 AM	4/6/04 9:18 AM	NORMAL	3.83	2.63	0.74	2.65	5.78
	4/7/04 11:27 AM	4/6/04 9:18 AM	REPEAT	3.95	2.63	0.79	2.7	5.78
	<i>RPD</i>			3.1%	0.0%	6.6%	1.9%	0.0%
68	4/7/04 11:36 AM	4/6/04 9:43 AM	NORMAL	5.38	3.58	0.95	3.93	8.9
	4/7/04 11:39 AM	4/6/04 9:43 AM	REPEAT	5.29	3.67	1.00	3.83	8.79
	<i>RPD</i>			1.7%	2.5%	5%	2.6%	1.2%
69	4/8/04 1:18 PM	4/5/04 7:30 AM	NORMAL	76.3	22.1	8.41	78.4	201
	4/8/04 1:21 PM	4/5/04 7:30 AM	REPEAT	74.7	21.8	8.27	78.0	201
	<i>RPD</i>			2.1%	1.4%	1.7%	1%	0%
70	4/8/04 2:44 PM	4/8/04 10:52 AM	NORMAL	1.6	0.64	0.24	0.33	0.58
	4/8/04 2:47 PM	4/8/04 10:52 AM	REPEAT	1.53	0.69	0.15	0.43	0.57
	<i>RPD</i>			4.5%	7.9%	46%	26%	1.9%
71	4/8/04 3:11 PM	4/8/04 10:20 AM	NORMAL	1.61	0.73	0.10	0.17	0.48
	4/8/04 3:14 PM	4/8/04 10:20 AM	REPEAT	1.65	0.85	0.12	0.2	0.45
	<i>RPD</i>			2.5%	14%	13%	16%	7.5%
72	4/8/04 3:21 PM	4/8/04 10:23 AM	NORMAL	1.37	0.71	0.12	0.10	0.57
	4/8/04 3:24 PM	4/8/04 10:23 AM	REPEAT	1.57	0.74	0.10	0.08	0.53
	<i>RPD</i>			13.6%	4.8%	16%	22%	7.1%
73	4/8/04 3:35 PM	4/8/04 9:27 AM	NORMAL	2.41	1.03	0.18	0.54	1.82
	4/8/04 3:38 PM	4/8/04 9:27 AM	REPEAT	2.34	1.07	0.15	0.58	1.83
	<i>RPD</i>			2.9%	3.8%	19%	6.4%	0.5%
74	4/8/04 3:45 PM	4/8/04 9:28 AM	NORMAL	1.66	0.94	0.12	0.60	1.38
	4/8/04 3:47 PM	4/8/04 9:28 AM	REPEAT	1.95	0.95	0.19	0.41	1.36
	<i>RPD</i>			16.1%	1.2%	44%	38%	1.5%
75	4/22/04 9:16 AM	4/22/04 9:16 AM	5 PPM MIX	5.11	10.5	5.17	5.08	4.74
	4/22/04 9:19 AM	4/22/04 9:19 AM	5 PPM MIX RPT	5.32	10.8	5.45	5.36	4.78
	<i>RPD</i>			4.0%	2.8%	5.3%	5.4%	0.8%
76	4/22/04 9:22 AM	4/22/04 9:22 AM	100 PPM MIX	114	198	104	103	90.1
	4/22/04 9:25 AM	4/22/04 9:25 AM	100 PPM MIX RPT	116	200	109	107	92
	<i>RPD</i>			2%	1%	5%	4%	2%

Table A-2. (continued).

	ANALYSIS DATE	SAMPLE DATE	TYPE	CHCL3	TCA	PCE	TCE	CCL4
77	4/29/04 9:08 AM	4/29/04 9:08 AM	100 PPM MIX	112	194	102	101	87.3
	4/29/04 9:11 AM	4/29/04 9:11 AM	100 PPM MIX RPT	113	196	107	104	89.5
	<i>RPD</i>			1%	1%	4.5%	3%	2.5%
78	4/29/04 9:23 AM	4/26/04 9:40 AM	NORMAL	15.7	14	12.3	25.7	43.6
	4/29/04 9:26 AM	4/26/04 9:40 AM	REPEAT	15.9	13.7	11.5	25.9	42.6
	<i>RPD</i>			1.3%	2%	6.7%	0.8%	2.3%
79	4/29/04 9:38 AM	4/26/04 9:30 AM	NORMAL	81.2	24.7	7.21	47.7	193
	4/29/04 9:41 AM	4/26/04 9:30 AM	REPEAT	82.1	24.8	6.98	48.4	195
	<i>RPD</i>			1.1%	0.4%	3.2%	1.5%	1%
80	5/3/04 1:17 PM	5/3/04 1:17 PM	5 PPM MIX	5.37	10.6	5.48	5.36	4.6
	5/3/04 1:20 PM	5/3/04 1:20 PM	5 PPM MIX RPT	5.51	10.8	5.75	5.46	4.71
	<i>RPD</i>			2.6%	1.9%	4.8%	1.8%	2%
81	5/3/04 1:35 PM	5/3/04 1:35 PM	1000 PPM CCL4	2.86	1.66	9.06	--	952
	5/3/04 1:38 PM	5/3/04 1:38 PM	1000 PPM CCl4 RPT	2.8	1.25	7.2	--	966
	<i>RPD</i>			2.1%	28.2%	23%	0%	2%
82	5/4/04 9:57 AM	5/3/04 11:16 AM	NORMAL	3.98	3.81	4.60	4.06	9.63
	5/4/04 10:00 AM	5/3/04 11:16 AM	REPEAT	3.94	3.48	3.46	3.56	8.37
	<i>RPD</i>			1.0%	9.1%	28.3%	13.1%	14.0%
83	5/4/04 10:21 AM	5/3/04 11:03 AM	NORMAL	6.02	7.1	4.41	4.34	12.2
	5/4/04 10:24 AM	5/3/04 11:03 AM	REPEAT	5.91	7.06	4.03	4.35	12.1
	<i>RPD</i>			1.8%	0.6%	9.0%	0.2%	0.8%
84	5/4/04 10:54 AM	5/3/04 10:52 AM	NORMAL	3.89	2.18	0.67	1.4	4.56
	5/4/04 10:57 AM	5/3/04 10:52 AM	REPEAT	3.9	2.16	0.64	1.5	4.6
	<i>RPD</i>			0.3%	0.9%	5.7%	6.9%	0.9%
85	5/4/04 11:27 AM	5/3/04 10:34 AM	NORMAL	2.44	1.47	0.34	0.78	3.28
	5/4/04 11:30 AM	5/3/04 10:34 AM	REPEAT	2.70	1.47	0.29	0.68	3.32
	<i>RPD</i>			10.1%	0.0%	15%	15%	1.2%
86	5/4/04 12:24 PM	5/4/04 7:41 AM	NORMAL	6.68	4.45	2.04	6.2	16.1
	5/4/04 12:27 PM	5/4/04 7:41 AM	REPEAT	6.61	4.57	2.07	6.19	16.2
	<i>RPD</i>			1.1%	2.7%	1.5%	0.2%	0.6%

Table A-2. (continued).

	ANALYSIS DATE	SAMPLE DATE	TYPE	CHCL3	TCA	PCE	TCE	CCL4
87	5/4/04 12:36 PM 5/4/04 12:39 PM	5/4/04 7:58 AM 5/4/04 7:58 AM	NORMAL REPEAT	7.39 7.41	6.34 6.45	2.4 2.42	5.15 5.14	8.01 8.01
	<i>RPD</i>			0.3%	1.7%	0.8%	0.2%	0.0%
88	5/4/04 12:51 PM 5/4/04 12:54 PM	5/4/04 7:51 AM 5/4/04 7:51 AM	NORMAL REPEAT	5.82 6	5.01 5.1	1.91 1.98	5.73 5.83	9.42 9.42
	<i>RPD</i>			3%	1.8%	3.6%	1.7%	0.0%
89	5/4/04 1:16 PM 5/4/04 1:18 PM	5/4/04 8:15 AM 5/4/04 8:15 AM	NORMAL REPEAT	9.18 9.16	7.65 7.68	2.31 2.34	7.07 7.08	33.4 33.6
	<i>RPD</i>			0.2%	0.4%	1.3%	0.1%	0.6%
90	5/5/04 9:49 AM 5/5/04 9:52 AM	5/5/04 9:49 AM 5/5/04 9:52 AM	5 PPM MIX 5 PPM MIX RPT	5.47 5.49	10.5 10.6	5.52 5.57	5.39 5.48	4.56 4.62
	<i>RPD</i>			0.4%	0.9%	0.9%	1.7%	1.3%
91	5/5/04 9:55 AM 5/5/04 9:59 AM	5/5/04 9:55 AM 5/5/04 9:59 AM	100 PPM MIX 100 PPM MIX RPT	114 116	198 200	106 110	104 107	90.1 92
	<i>RPD</i>			2%	1%	4%	3%	2%
92	5/5/04 10:31 AM 5/5/04 10:34 AM	5/5/04 7:37 AM 5/5/04 7:37 AM	NORMAL REPEAT	8.41 8.47	5.05 5.04	1.97 1.94	7.22 7.22	24.3 24.3
	<i>RPD</i>			0.7%	0.2%	1.5%	0.0%	0.0%
93	5/5/04 10:43 AM 5/5/04 10:46 AM	5/5/04 8:20 AM 5/5/04 8:20 AM	NORMAL REPEAT	4.82 4.94	3.02 3.12	1.35 1.4	5.53 5.48	13.7 13.7
	<i>RPD</i>			2.5%	3.3%	3.6%	0.9%	0.0%
94	5/5/04 11:08 AM 5/5/04 11:11 AM	5/5/04 8:15 AM 5/5/04 8:15 AM	NORMAL REPEAT	6.33 6.3	3.29 3.42	1.01 1.02	6.04 5.96	19.5 19.5
	<i>RPD</i>			0.5%	3.9%	1.0%	1.3%	0.0%
95	5/12/04 9:17 AM 5/12/04 9:20 AM	5/12/04 9:17 AM 5/12/04 9:20 AM	1000 PPM CCL4 1000 PPM CCl4 RPT	4.92 2.44	7.21 1.82	16.4 6.93	-- --	962 969
	<i>RPD</i>			67%	119%	81.2%	0%	1%
96	5/12/04 9:39 AM 5/12/04 9:41 AM	5/10/04 9:53 AM 5/10/04 9:53 AM	NORMAL REPEAT	28.2 28.4	10.9 11.1	2.59 2.79	21.3 21.2	83.6 83.7
	<i>RPD</i>			0.7%	1.8%	7.4%	0.5%	0.1%

Table A-2. (continued).

	ANALYSIS DATE	SAMPLE DATE	TYPE	CHCL3	TCA	PCE	TCE	CCL4
97	5/12/04 10:02 AM 5/12/04 10:05 AM	5/10/04 9:30 AM 5/10/04 9:30 AM	NORMAL REPEAT	53.2 53.7	9.29 9.27	1.72 1.69	31.3 31.7	76.1 76.7
	<i>RPD</i>			0.9%	0.2%	1.8%	1.3%	0.8%
98	5/12/04 10:23 AM 5/12/04 10:26 AM	5/10/04 9:11 AM 5/10/04 9:11 AM	NORMAL REPEAT	3.15 2.95	1.31 1.28	0.55 0.46	2.34 1.99	4.08 3.50
	<i>RPD</i>			6.6%	2.3%	17%	16.2%	15.3%
99	5/12/04 10:41 AM 5/12/04 10:45 AM	5/10/04 9:15 AM 5/10/04 9:15 AM	NORMAL REPEAT	15.3 15.2	6.67 6.68	2.34 2.28	11.0 11.4	60.4 61.6
	<i>RPD</i>			0.7%	0.1%	2.6%	3.6%	2.0%
100	5/12/04 11:15 AM 5/12/04 11:18 AM	5/10/04 9:32 AM 5/10/04 9:32 AM	NORMAL REPEAT	24.0 24.1	8.93 8.85	1.47 1.51	19.5 19.5	69.5 69.6
	<i>RPD</i>			0.4%	0.9%	2.7%	0.0%	0.1%
101	5/20/04 8:35 AM 5/20/04 8:38 AM	5/20/04 8:35 AM 5/20/04 8:38 AM	5 PPM MIX 5 PPM MIX RPT	5.42 5.61	10.6 10.7	5.32 5.42	5.56 5.59	4.65 4.7
	<i>RPD</i>			3.4%	0.9%	1.9%	0.5%	1.1%
102	5/20/04 8:41 AM 5/20/04 8:44 AM	5/20/04 8:41 AM 5/20/04 8:44 AM	100 PPM MIX 100 PPM MIX RPT	112 113	195 196	101 104	105 107	90.9 92.3
	<i>RPD</i>			1%	1%	3%	2%	2%
103	5/27/04 9:05 AM 6/3/04 8:00 AM	5/27/04 7:23 AM 6/3/04 8:00 AM	NORMAL REPEAT	42.2 43.8	13.9 15	4.67 4.84	49.3 56.9	118 136
	<i>RPD</i>			3.7%	7%	3.6%	14.3%	14%
104	6/8/04 11:57 AM 6/8/04 12:00 PM	6/7/04 11:00 AM 6/7/04 11:00 AM	NORMAL REPEAT	12.5 12.5	6.42 6.35	2.24 2.06	7.92 7.87	22.5 22.4
	<i>RPD</i>			0.0%	1.1%	8.4%	0.6%	0.4%
105	6/8/04 12:16 PM 6/8/04 12:19 PM	6/7/04 11:15 AM 6/7/04 11:15 AM	NORMAL REPEAT	4.13 3.9	3.39 3.49	1.23 1.51	2.34 2.54	5.84 5.66
	<i>RPD</i>			5.7%	2.9%	20.4%	8.2%	3.1%
106	6/8/04 12:24 PM 6/8/04 12:27 PM	6/7/04 11:20 AM 6/7/04 11:20 AM	NORMAL REPEAT	8.72 8.84	3.28 3.15	1.97 1.97	12.1 12.2	22.2 22.5
	<i>RPD</i>			1.4%	4.0%	0.0%	0.8%	1.3%
107	6/8/04 1:09 PM 6/8/04 1:12 PM	6/7/04 11:40 AM 6/7/04 11:40 AM	NORMAL REPEAT	11.5 10.2	5.38 4.9	1.56 1.34	12.3 9.28	36.0 27.4
	<i>RPD</i>			12.0%	9.3%	15.2%	28%	27.1%

Table A-2. (continued).

	ANALYSIS DATE	SAMPLE DATE	TYPE	CHCL3	TCA	PCE	TCE	CCL4
108	6/8/04 2:12 PM	6/7/04 1:30 PM	NORMAL	3.89	2.31	0.61	1.71	5.6
	6/8/04 2:16 PM	6/7/04 1:30 PM	REPEAT	3.89	2.39	0.54	1.63	5.28
	<i>RPD</i>			0.0%	3.4%	12%	4.8%	5.9%
109	6/8/04 2:24 PM	6/7/04 1:30 PM	NORMAL	10.2	5.16	1.38	8.1	24.3
	6/8/04 2:27 PM	6/7/04 1:30 PM	REPEAT	10.4	5.12	1.36	8.04	24.1
	<i>RPD</i>			1.9%	0.8%	1.5%	0.7%	0.8%
110	6/10/04 2:36 PM	6/9/04 11:23 AM	NORMAL	4.01	2.08	0.42	1	2.03
	6/10/04 2:39 PM	6/9/04 11:23 AM	REPEAT	4.45	2.16	0.39	0.96	1.99
	<i>RPD</i>			10.4%	3.8%	7.2%	5%	2.0%
111	6/10/04 3:45 PM	6/9/04 12:00 PM	NORMAL	2.84	1.64	0.31	0.63	0.81
	6/10/04 3:48 PM	6/9/04 12:00 PM	REPEAT	2.92	1.61	0.35	0.65	0.72
	<i>RPD</i>			2.8%	1.8%	13%	2.8%	12%
112	6/10/04 4:51 PM	6/9/04 12:54 PM	NORMAL	5.9	3.91	1.4	4.84	10.8
	6/10/04 4:54 PM	6/9/04 12:54 PM	REPEAT	5.91	3.82	1.39	4.91	10.4
	<i>RPD</i>			0.2%	2.3%	0.7%	1.4%	3.8%
113	6/15/04 12:57 PM	6/14/04 12:00 PM	NORMAL	6.58	4.33	4.67	3.24	6.98
	6/15/04 1:00 PM	6/14/04 12:00 PM	REPEAT	6.6	3.92	3.41	2.64	5.38
	<i>RPD</i>			0.3%	9.9%	31.2%	20.4%	25.9%
114	6/15/04 1:33 PM	6/14/04 12:45 PM	NORMAL	3.57	2.61	1.13	2.03	4.53
	6/15/04 1:36 PM	6/14/04 12:45 PM	REPEAT	3.65	2.65	1.07	1.97	4.51
	<i>RPD</i>			2.2%	1.5%	5.5%	3.0%	0.4%
115	6/15/04 2:37 PM	6/14/04 2:00 PM	NORMAL	2.89	1.98	0.40	0.83	2.51
	6/15/04 2:40 PM	6/14/04 2:00 PM	REPEAT	2.96	2.03	0.40	0.90	2.5
	<i>RPD</i>			2.4%	2.5%	0.2%	7.4%	0.4%
116	6/15/04 3:43 PM	6/14/04 3:45 PM	NORMAL	2.92	1.55	0.26	0.68	0.93
	6/15/04 3:46 PM	6/14/04 3:45 PM	REPEAT	3.09	1.62	0.27	0.67	0.93
	<i>RPD</i>			5.7%	4.4%	3.0%	1.5%	0.1%

Appendix B

Analytical Accuracy

Appendix B

Analytical Accuracy

Standards (i.e., premixed gas samples at verified concentrations) were purchased at concentrations of 1, 5, 100, 500, and 1,000 ppmv. These standard gases were analyzed before analysis of each set of vapor samples from the vadose zone at RWMC to quantify and validate instrument performance. Table B-1 lists the results of each standard sample analyzed during the operational period. Figures B-1 through B-5 illustrate the accuracy of the B&K photoacoustic gas analyzer during the mid-year 2004 operational period.

Table B-1. Brüel and Kjær photoacoustic gas analyzer standard results.

Standard Type	Analysis Date	CHCL3 ppmv	TCA ppmv	PCE ppmv	TCE ppmv	CCL4 ppmv
1 PPM MIX	06-Jan-04	1.15	2.26	1.15	1.16	1.21
1 PPM MIX	07-Jan-04	1.22	2.56	1.1	1.3	2.17
1 PPM MIX	08-Jan-04	1.2	2.59	1.13	1.5	2.21
1 PPM MIX	12-Jan-04	1.24	2.6	1.15	1.35	1.4
1 PPM MIX	13-Jan-04	1.1	2.44	1.04	1.1	.97
1 PPM MIX	15-Jan-04	1.12	2.29	1.19	1.11	1.1
1 PPM MIX	20-Jan-04	1.23	2.37	1.26	1.21	1.45
1 PPM MIX	20-Jan-04	1.29	2.45	1.12	1.08	1.04
1 PPM MIX	22-Jan-04	1.19	2.45	1.24	1.22	1.32
1 PPM MIX	29-Jan-04	1.33	2.37	1.22	1.32	1.47
1 PPM MIX	29-Jan-04	1.46	2.4	1.12	1.09	1.01
1 PPM MIX	02-Feb-04	1.27	2.54	1.26	1.18	1.06
1 PPM MIX	02-Feb-04	1.01	2.31	1.08	1.00	1.05
1 PPM MIX	03-Feb-04	1.25	2.32	1.3	1.23	.99
1 PPM MIX	03-Feb-04	1.2	2.27	1.17	1.03	.91
1 PPM MIX	04-Feb-04	1.27	2.45	1.3	1.31	1.3
1 PPM MIX	05-Feb-04	1.29	2.62	1.23	1.48	2.65
1 PPM MIX	12-Feb-04	1.17	2.38	1.32	1.41	1.57
1 PPM MIX	12-Feb-04	1.39	2.42	1.29	1.08	1.09
1 PPM MIX	19-Feb-04	1.47	2.52	1.28	1.37	1.49
1 PPM MIX	19-Feb-04	1.42	2.42	1.19	1.17	1.06
1 PPM MIX	26-Feb-04	1.22	2.46	1.28	1.32	1.44
1 PPM MIX	01-Mar-04	1.19	2.5	1.18	1.08	1
1 PPM MIX	02-Mar-04	0.99	2.49	1.05	1.07	1.02
1 PPM MIX	04-Mar-04	1.01	2.22	1.09	1.25	1.1
1 PPM MIX	11-Mar-04	1.3	2.76	1.24	1.36	1.09
1 PPM MIX	18-Mar-04	1.21	2.51	1.18	1.2	1

Table B-1. (continued).

Standard Type	Analysis Date	CHCL3 ppmv	TCA ppmv	PCE ppmv	TCE ppmv	CCL4 ppmv
1 PPM MIX	24-Mar-04	0.99	2.21	1.09	1.12	1.02
1 PPM MIX	25-Mar-04	1.15	2.32	1.16	1.17	1.09
1 PPM MIX	01-Apr-04	1.29	2.41	1.11	1.10	1.00
1 PPM MIX	05-Apr-04	.99	2.27	1.09	1.08	1.01
1 PPM MIX	07-Apr-04	2.33	2.59	1.15	1.29	1.11
1 PPM MIX	08-Apr-04	.91	2.36	1.14	1.19	1.04
1 PPM MIX	15-Apr-04	.96	2.39	1.07	1.05	.91
1 PPM MIX	22-Apr-04	1.01	2.25	1.07	1.07	1.27
1 PPM MIX	29-Apr-04	1.13	2.18	1.08	1.13	1.07
1 PPM MIX	03-May-04	1.32	2.56	1.17	1.21	1.00
1 PPM MIX	04-May-04	.89	2.28	1.14	1.14	1.07
1 PPM MIX	05-May-04	1.03	2.2	1.02	1.1	.94
1 PPM MIX	06-May-04	1.51	2.43	1.04	1.09	.94
1 PPM MIX	10-May-04	0.95	2.51	1.07	1.22	1.32
1 PPM MIX	12-May-04	1.39	2.82	2.25	1.75	2.08
1 PPM MIX	13-May-04	1.07	2.34	1.01	1.16	0.95
1 PPM MIX	20-May-04	1.05	2.43	1.11	1.16	.99
1 PPM MIX	27-May-04	.95	2.28	1.05	1.13	.96
1 PPM MIX	03-Jun-04	1.13	2.52	1.03	1.16	.95
1 PPM MIX	08-Jun-04	1.13	2.55	.99	1.15	.93
1 PPM MIX	10-Jun-04	1.04	2.5	1.07	1.15	.91
1 PPM MIX	15-Jun-04	1.4	2.56	1.02	1.07	.87
1 PPM MIX	16-Jun-04	1.45	2.67	1.09	1.18	1.02
1 PPM MIX	17-Jun-04	1.43	2.56	1.04	1.15	.94
1 PPM MIX	18-Jun-04	1.43	2.61	1.13	1.2	0.95
1 PPM MIX	24-Jun-04	1.82	2.66	1.13	1.28	0.89
5 PPM MIX	06-Jan-04	5.2	11.0	5.36	5.2	4.5
5 PPM MIX	07-Jan-04	5.42	11.0	5.33	5.3	5.3

Table B-1. (continued).

Standard Type	Analysis Date	CHCL3 ppmv	TCA ppmv	PCE ppmv	TCE ppmv	CCL4 ppmv
5 PPM MIX	08-Jan-04	5.46	11.0	5.84	5.5	4.78
5 PPM MIX	12-Jan-04	5.38	11.0	5.27	5.2	4.51
5 PPM MIX	13-Jan-04	5.08	11.0	5.04	5.0	4.36
5 PPM MIX	15-Jan-04	5.12	11.0	5.37	5.0	4.39
5 PPM MIX	20-Jan-04	5.35	11.0	5.38	5.3	4.52
5 PPM MIX	22-Jan-04	5.32	11.0	5.48	5.2	4.47
5 PPM MIX	29-Jan-04	5.3	10.0	5.2	5.0	4.35
5 PPM MIX	02-Feb-04	5.29	11.0	5.5	5.2	4.5
5 PPM MIX	03-Feb-04	5.26	11.0	5.56	5.3	4.58
5 PPM MIX	04-Feb-04	5.5	11.0	5.62	5.4	4.66
5 PPM MIX	05-Feb-04	5.38	11.0	5.46	5.5	4.8
5 PPM MIX	12-Feb-04	5.51	11.0	5.54	5.4	4.55
5 PPM MIX	19-Feb-04	5.52	11.0	5.5	5.4	4.7
5 PPM MIX	26-Feb-04	5.28	10.0	5.34	5.2	4.54
5 PPM MIX	01-Mar-04	5.58	11.0	5.72	5.4	4.73
5 PPM MIX	02-Mar-04	5.27	11.0	5.25	5.2	4.49
5 PPM MIX	04-Mar-04	5.26	11.0	5.36	5.3	4.49
5 PPM MIX	11-Mar-04	5.52	11.0	5.9	5.6	4.72
5 PPM MIX	18-Mar-04	5.55	11.0	5.79	5.5	4.58
5 PPM MIX	24-Mar-04	5.39	11.0	5.81	5.5	4.64
5 PPM MIX	25-Mar-04	5.37	11.0	5.61	5.4	4.75
5 PPM MIX	01-Apr-04	5.47	11.0	5.38	5.3	4.46
5 PPM MIX	05-Apr-04	5.24	11.0	5.52	5.3	4.5
5 PPM MIX	07-Apr-04	6.13	11.0	5.49	5.2	4.58
5 PPM MIX	08-Apr-04	4.93	9.8	4.54	4.7	4.22
5 PPM MIX	15-Apr-04	5.21	10.0	5.41	5.2	4.5
5 PPM MIX	22-Apr-04	5.11	11.0	5.17	5.1	4.74
5 PPM MIX	29-Apr-04	5.34	11.0	5.52	5.3	4.6

Table B-1. (continued).

Standard Type	Analysis Date	CHCL3 ppmv	TCA ppmv	PCE ppmv	TCE ppmv	CCL4 ppmv
5 PPM MIX	03-May-04	5.37	11.0	5.48	5.4	4.6
5 PPM MIX	04-May-04	5.54	11.0	5.62	5.4	4.69
5 PPM MIX	05-May-04	5.47	11.0	5.52	5.4	4.56
5 PPM MIX	06-May-04	5.51	10.0	5.11	5.1	4.46
5 PPM MIX	10-May-04	3.3	6.6	1.33	2.3	3.15
5 PPM MIX	12-May-04	5.4	11.0	6.29	6.0	5.72
5 PPM MIX	13-May-04	5.27	11.0	5.35	5.6	4.81
5 PPM MIX	20-May-04	5.42	11.0	5.32	5.6	4.65
5 PPM MIX	27-May-04	5.52	11.0	5.61	5.7	4.72
5 PPM MIX	03-Jun-04	5.6	11.0	5.27	5.5	4.68
5 PPM MIX	08-Jun-04	5.54	11.0	5.13	5.4	4.53
5 PPM MIX	10-Jun-04	5.49	11.0	5.2	5.2	4.36
5 PPM MIX	15-Jun-04	5.57	11.0	5.2	5.2	4.3
5 PPM MIX	16-Jun-04	5.47	10.0	4.69	5.0	4.26
5 PPM MIX	17-Jun-04	5.63	11.0	5.28	5.4	4.56
5 PPM MIX	18-Jun-04	5.45	10.0	4.96	5.1	4.34
5 PPM MIX	24-Jun-04	5.84	11.0	4.9	5.1	4.2
100 PPM MIX	06-Jan-04	114	197	108	103	88.2
100 PPM MIX	07-Jan-04	109	189	101	97.6	86.6
100 PPM MIX	08-Jan-04	111	191	103	99.9	86.0
100 PPM MIX	12-Jan-04	110	191	100	97.4	85.5
100 PPM MIX	13-Jan-04	107	184	96.2	94.6	82.0
100 PPM MIX	15-Jan-04	107	184	103	97.6	83.0
100 PPM MIX	20-Jan-04	111	191	106	101	87.6
100 PPM MIX	22-Jan-04	112	192	107	101	86.2
100 PPM MIX	29-Jan-04	104	179	98.9	94.5	80.9
100 PPM MIX	02-Feb-04	112	192	106	101	86.1
100 PPM MIX	03-Feb-04	114	196	108	104	88.6

Table B-1. (continued).

Standard Type	Analysis Date	CHCL3 ppmv	TCA ppmv	PCE ppmv	TCE ppmv	CCL4 ppmv
100 PPM MIX	04-Feb-04	114	197	106	103	88.7
100 PPM MIX	05-Feb-04	115	200	106	105	91.1
100 PPM MIX	12-Feb-04	113	195	105	102	87.4
100 PPM MIX	19-Feb-04	112	194	104	101	87.5
100 PPM MIX	26-Feb-04	108	187	99.5	97.6	84.2
100 PPM MIX	01-Mar-04	114	198	106	104	89.3
100 PPM MIX	02-Mar-04	109	188	99.7	98.2	85.3
100 PPM MIX	04-Mar-04	112	194	103	102	88.4
100 PPM MIX	11-Mar-04	115	199	107	104	89.2
100 PPM MIX	18-Mar-04	116	199	109	105	89.9
100 PPM MIX	24-Mar-04	111	191	102	100	86.0
100 PPM MIX	25-Mar-04	111	191	103	100	86.7
100 PPM MIX	25-Mar-04	112	193	107	103	88.6
100 PPM MIX	01-Apr-04	116	200	107	105	90.3
100 PPM MIX	05-Apr-04	112	193	104	101	87.2
100 PPM MIX	07-Apr-04	117	204	107	103	92.2
100 PPM MIX	08-Apr-04	115	198	113	107	90.7
100 PPM MIX	15-Apr-04	109	187	101	99.2	85.3
100 PPM MIX	22-Apr-04	114	198	104	103	90.1
100 PPM MIX	29-Apr-04	112	194	102	101	87.3
100 PPM MIX	03-May-04	109	188	98.2	98.0	85.5
100 PPM MIX	04-May-04	114	196	105	103	89.2
100 PPM MIX	05-May-04	114	198	106	104	90.1
100 PPM MIX	06-May-04	113	196	102	102	89.5
100 PPM MIX	12-May-04	113	197	105	107	94.1
100 PPM MIX	13-May-04	113	196	102	106	92.3
100 PPM MIX	20-May-04	112	195	101	105	90.9
100 PPM MIX	27-May-04	118	207	109	112	97.6

Table B-1. (continued).

Standard Type	Analysis Date	CHCL3 ppmv	TCA ppmv	PCE ppmv	TCE ppmv	CCL4 ppmv
100 PPM MIX	03-Jun-04	113	196	100	105	91.9
100 PPM MIX	08-Jun-04	98.4	171	85.8	91.4	79.3
100 PPM MIX	15-Jun-04	103	177	90.9	92.1	79.9
100 PPM MIX	16-Jun-04	109	189	94.4	100	88.4
100 PPM MIX	17-Jun-04	112	194	101	102	89.1
100 PPM MIX	18-Jun-04	110	189	95.6	97.4	86.3
100 PPM MIX	24-Jun-04	109	189	94.6	98.2	86.7
500 PPM MIX	06-Jan-04	492	898	451	455	409
500 PPM MIX	07-Jan-04	490	892	440	460	411
500 PPM MIX	08-Jan-04	494	898	428	453	410
500 PPM MIX	12-Jan-04	500	906	447	461	417
500 PPM MIX	13-Jan-04	456	830	393	417	377
500 PPM MIX	15-Jan-04	459	834	407	425	381
500 PPM MIX	20-Jan-04	509	920	457	474	424
500 PPM MIX	22-Jan-04	475	862	426	444	395
500 PPM MIX	29-Jan-04	492	892	472	463	413
500 PPM MIX	02-Feb-04	504	900	451	467	421
500 PPM MIX	03-Feb-04	522	934	479	488	440
500 PPM MIX	04-Feb-04	492	887	462	467	418
500 PPM MIX	05-Feb-04	510	922	450	474	433
500 PPM MIX	12-Feb-04	471	845	399	428	391
500 PPM MIX	12-Feb-04	466	837	408	433	392
500 PPM MIX	19-Feb-04	525	938	484	485	440
500 PPM MIX	26-Feb-04	478	855	401	424	400
500 PPM MIX	01-Mar-04	523	933	499	495	444
500 PPM MIX	02-Mar-04	509	898	456	467	426
500 PPM MIX	04-Mar-04	506	901	461	473	430
500 PPM MIX	11-Mar-04	477	842	446	442	400

Table B-1. (continued).

Standard Type	Analysis Date	CHCL3 ppmv	TCA ppmv	PCE ppmv	TCE ppmv	CCL4 ppmv
500 PPM MIX	18-Mar-04	521	919	494	484	440
500 PPM MIX	24-Mar-04	501	884	460	459	421
500 PPM MIX	25-Mar-04	516	908	479	475	437
500 PPM MIX	01-Apr-04	494	866	477	460	418
500 PPM MIX	05-Apr-04	516	900	507	483	438
500 PPM MIX	07-Apr-04	401	725	400	371	348
500 PPM MIX	08-Apr-04	512	895	520	485	437
500 PPM MIX	15-Apr-04	487	853	416	432	410
500 PPM MIX	22-Apr-04	492	857	476	458	421
500 PPM MIX	29-Apr-04	512	880	472	460	431
500 PPM MIX	03-May-04	529	917	542	498	453
500 PPM MIX	04-May-04	527	909	500	478	447
500 PPM MIX	05-May-04	530	908	510	483	449
500 PPM MIX	06-May-04	523	899	486	473	444
500 PPM MIX	10-May-04	444	768	278	352	370
500 PPM MIX	12-May-04	477	827	456	450	423
500 PPM MIX	13-May-04	463	804	453	442	412
500 PPM MIX	20-May-04	493	852	461	457	432
500 PPM MIX	27-May-04	517	891	483	477	454
500 PPM MIX	03-Jun-04	490	847	457	454	432
500 PPM MIX	08-Jun-04	500	873	471	464	439
500 PPM MIX	10-Jun-04	516	887	470	452	430
500 PPM MIX	15-Jun-04	524	926	491	469	443
500 PPM MIX	16-Jun-04	527	941	490	488	465
500 PPM MIX	17-Jun-04	541	936	498	483	460
500 PPM MIX	18-Jun-04	514	902	462	452	434
500 PPM MIX	24-Jun-04	475	853	430	424	408
1000 PPM CCL4	08-Jan-04	8.01	9.99	23.2	-7.6	967

Table B-1. (continued).

Standard Type	Analysis Date	CHCL3 ppmv	TCA ppmv	PCE ppmv	TCE ppmv	CCL4 ppmv
1000 PPM CCL4	12-Jan-04	4.2	2.47	10.1	-15.0	916
1000 PPM CCL4	13-Jan-04	9.21	11.4	24.3	-4.2	904
1000 PPM CCL4	15-Jan-04	7.75	9.29	21.4	-7.1	933
1000 PPM CCL4	20-Jan-04	7.95	9.9	23.4	-6.8	968
1000 PPM CCL4	22-Jan-04	6.58	7.72	19.2	-11.0	970
1000 PPM CCL4	29-Jan-04	7.84	9.78	22.9	-5.3	907
1000 PPM CCL4	02-Feb-04	8.12	10.8	23	.53	778
1000 PPM CCL4	03-Feb-04	6.29	8.04	19.4	-6.3	895
1000 PPM CCL4	04-Feb-04	8.3	10.1	25.8	-5.1	965
1000 PPM CCL4	04-Feb-04	2.13	0.37	2.49	-14.0	1.02E+03
1000 PPM CCL4	04-Feb-04	1.99	0.23	2.51	-15.0	1.03E+03
1000 PPM CCL4	05-Feb-04	7.92	10.3	23.0	-5.8	979
1000 PPM CCL4	12-Feb-04	8.94	11.3	25.9	-2.6	915
1000 PPM CCL4	19-Feb-04	8.58	10.9	24.6	-4.1	930
1000 PPM CCL4	26-Feb-04	8.29	10.5	21.7	-5.5	942
1000 PPM CCL4	01-Mar-04	8.49	11.0	27.2	-3.8	956
1000 PPM CCL4	02-Mar-04	9.0	11.3	26.0	-4.5	967
1000 PPM CCL4	04-Mar-04	7.1	9.35	21.5	-5.7	969
1000 PPM CCL4	11-Mar-04	7.81	8.66	24.6	-6.6	957
1000 PPM CCL4	18-Mar-04	7.73	9.61	23.4	-6.3	977
1000 PPM CCL4	24-Mar-04	7.73	9.47	21.8	-5.5	923
1000 PPM CCL4	25-Mar-04	7.89	9.94	23.1	-5.5	959
1000 PPM CCL4	01-Apr-04	7.56	9.63	24.8	-6.5	984
1000 PPM CCL4	05-Apr-04	9.15	11.8	30.6	-2.3	946
1000 PPM CCL4	05-Apr-04	4.47	3.0	13.0	-14.0	957
1000 PPM CCL4	07-Apr-04	5.09	3.1	11.8	-14.0	942
1000 PPM CCL4	08-Apr-04	8.79	11.2	30.6	-3.0	966
1000 PPM CCL4	15-Apr-04	6.48	8.02	18.9	-8.9	968

Table B-1. (continued).

Standard Type	Analysis Date	CHCL3 ppmv	TCA ppmv	PCE ppmv	TCE ppmv	CCL4 ppmv
1000 PPM CCL4	22-Apr-04	8.79	11.1	30.6	-3.3	987
1000 PPM CCL4	29-Apr-04	4.96	3.93	14.7	-12.0	961
1000 PPM CCL4	03-May-04	2.86	1.66	9.06	-15.0	952
1000 PPM CCL4	04-May-04	8.41	10.8	25.3	-3.1	925
1000 PPM CCL4	05-May-04	7.99	10.2	25.5	-4.3	956
1000 PPM CCL4	06-May-04	8.58	11.1	25.9	-3.5	962
1000 PPM CCL4	12-May-04	4.92	7.21	16.4	-4.8	962
1000 PPM CCL4	13-May-04	6.65	9.57	23.7	-.56	938
1000 PPM CCL4	20-May-04	5.85	8.27	18.9	-5.0	1.01E+03
1000 PPM CCL4	27-May-04	5.37	7.58	16.5	-5.7	1.01E+03
1000 PPM CCL4	03-Jun-04	6.67	9.97	20.5	-1.9	975
1000 PPM CCL4	08-Jun-04	7.02	10.7	20.9	-.30	937
1000 PPM CCL4	10-Jun-04	9.08	12.2	25.7	.04	847
1000 PPM CCL4	15-Jun-04	8.58	12.5	25.2	1.55	833
1000 PPM CCL4	16-Jun-04	7.34	11.2	21.1	-1.2	960
1000 PPM CCL4	17-Jun-04	8.68	11.9	25.4	-3.2	978
1000 PPM CCL4	18-Jun-04	8.79	12.5	24.7	.01	851
1000 PPM CCL4	24-Jun-04	7.85	11.5	21.3	-1.4	893

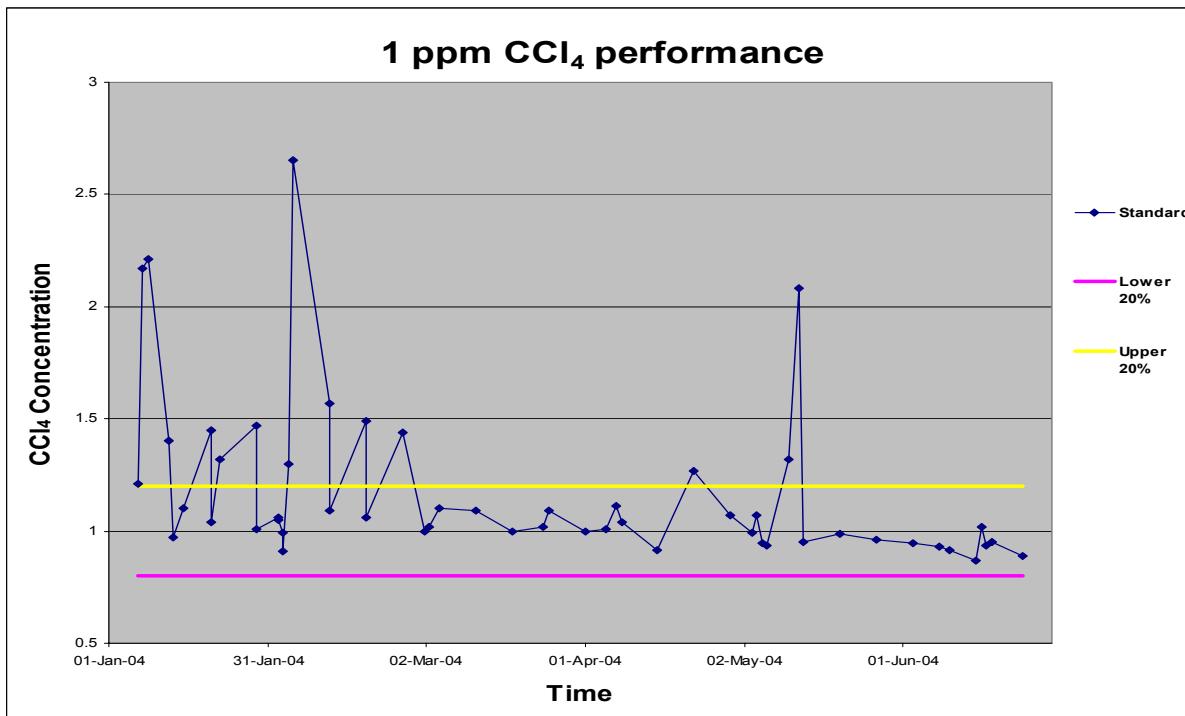


Figure B-1. Brüel and Kjær photoacoustic gas analyzer 1-ppmv carbon tetrachloride standard.

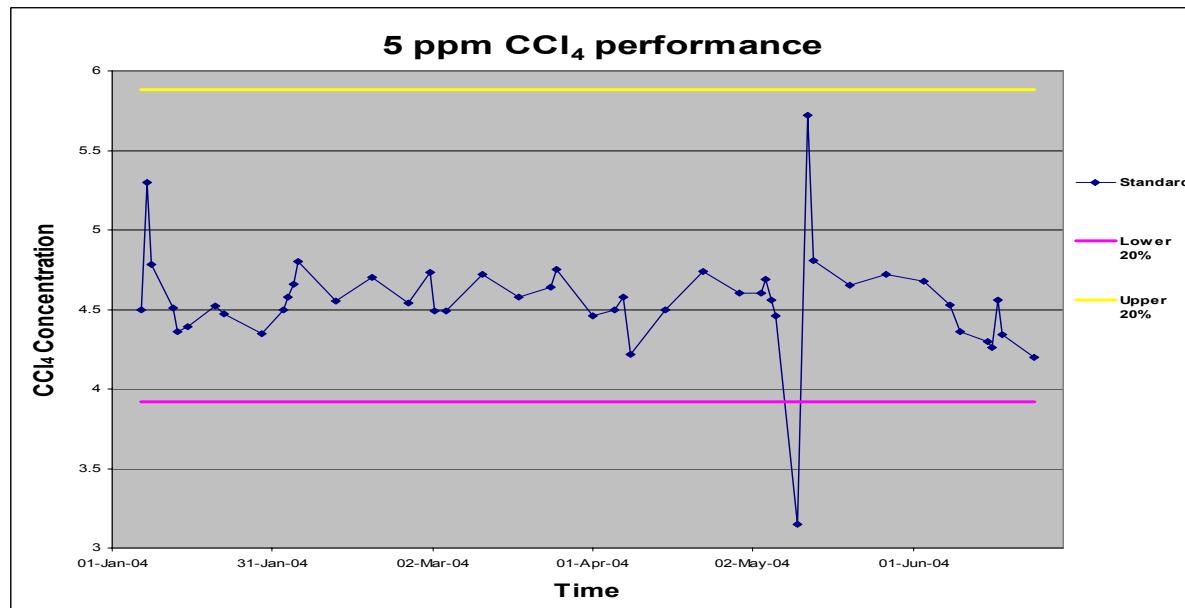


Figure B-2. Brüel and Kjær photoacoustic gas analyzer 5-ppmv carbon tetrachloride standard.

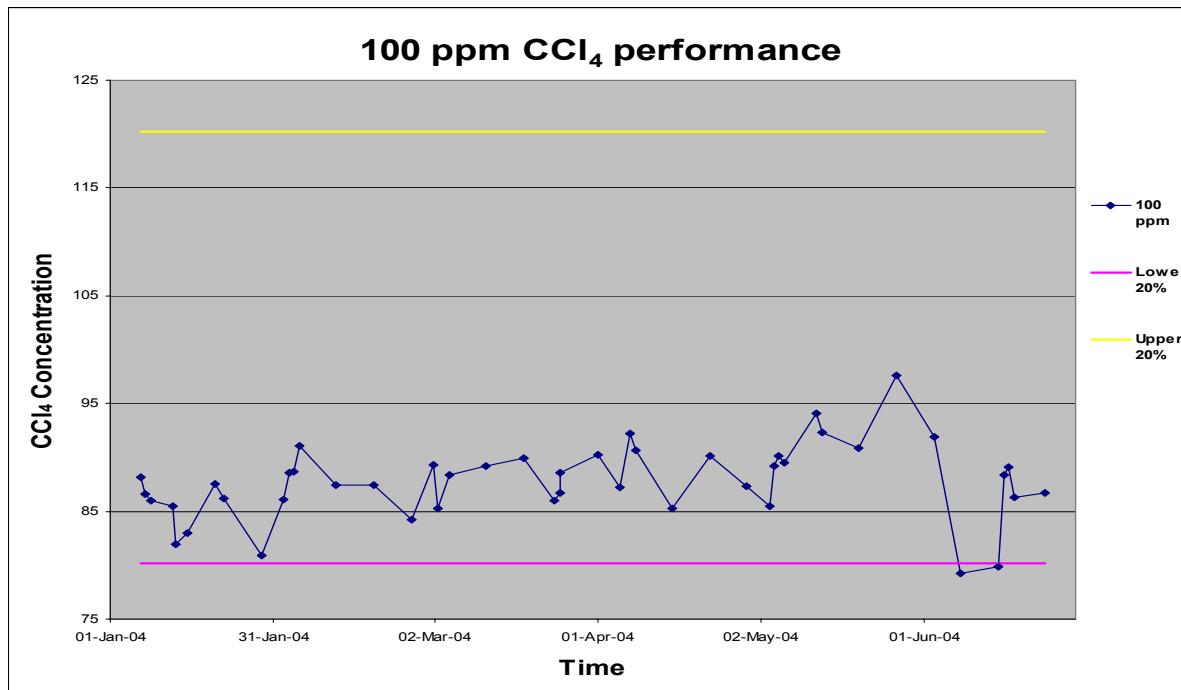


Figure B-3. Brüel and Kjær photoacoustic gas analyzer 100-ppmv carbon tetrachloride standard.

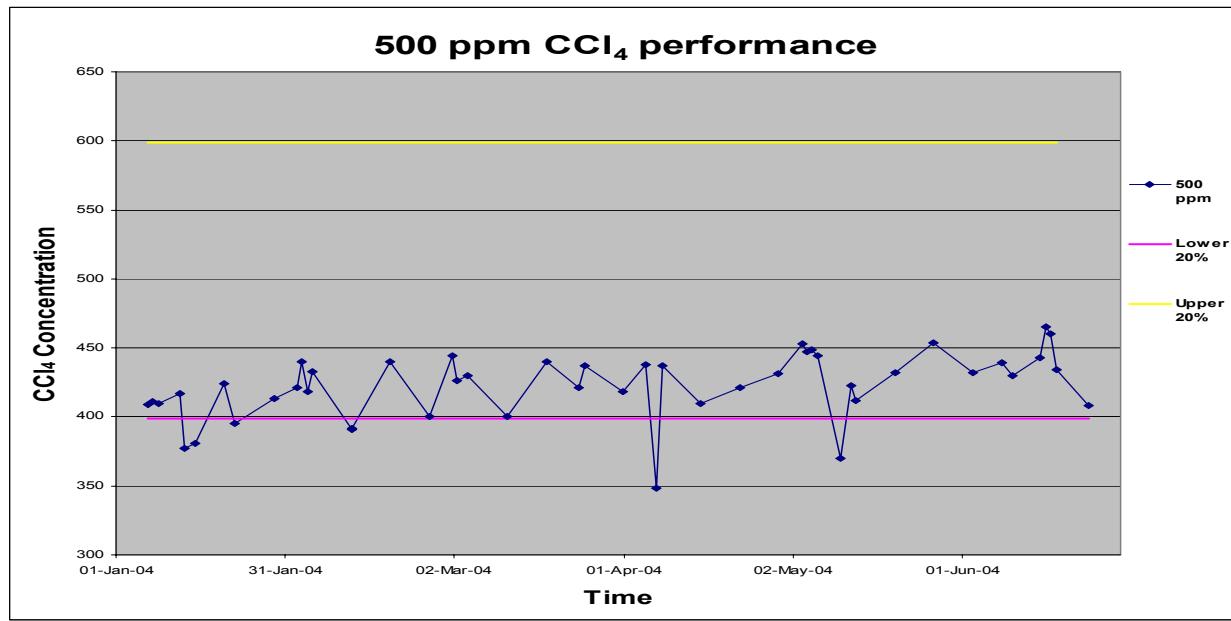


Figure B-4. Brüel and Kjær photoacoustic gas analyzer 500-ppmv carbon tetrachloride standard.

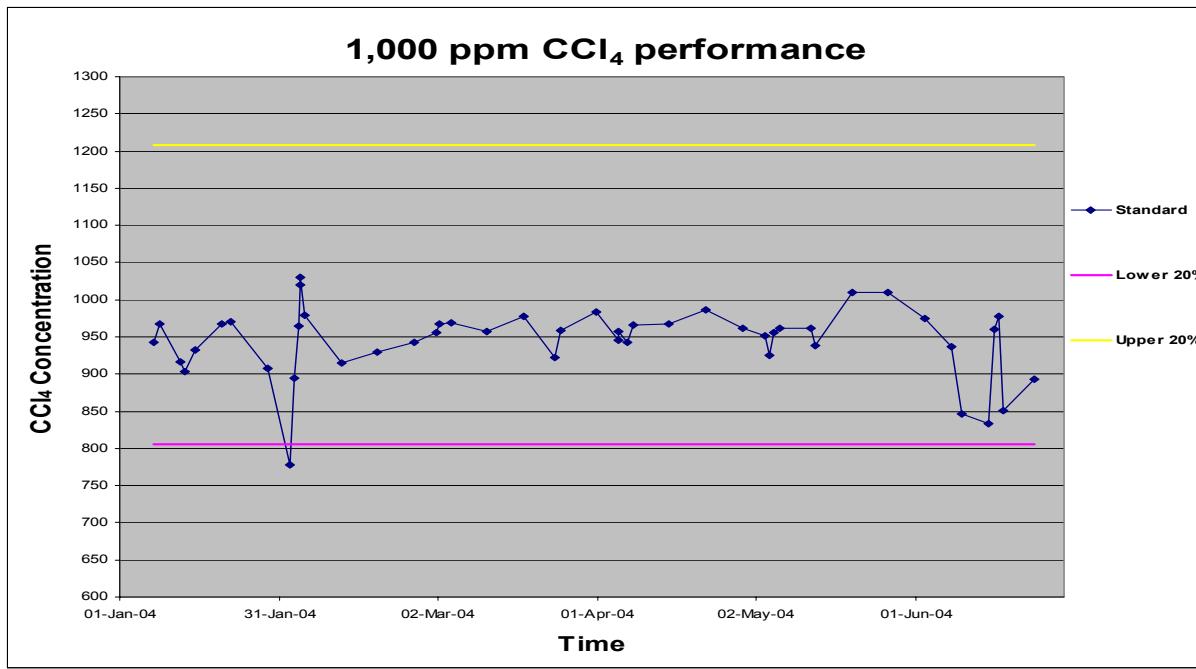


Figure B-5. Brüel and Kjær photoacoustic gas analyzer 1,000-ppmv carbon tetrachloride standard.

Appendix C

Mass Removal Sample Data

Appendix C

Mass Removal Sample Data

Appendix C is comprised of four tables and five figures. Tables C-1 through C-3 contain the VOC mass removal spreadsheets for each of the three VVET units at the SDA during the mid-year 2004 operational period. Figures C-1, C-2, and C-3 illustrate the carbon tetrachloride sample concentrations at the units during the mid-year 2004 operational period. Table C-4 is a breakdown of the mass of contaminants removed per operational period since operations began in 1996. Figures C-4 and C-5 illustrate, in pie charts, the proportion of each VOC of the cumulative mass removed during the mid-year 2004 operational period and since the beginning of operations, respectively.

Table C-1. Unit D mid-year 2004 mass removal calculation.

ID NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE DECIMAL DATE	ACTUAL DATA				RIEMANN SUMS						
				CHCl ₃	(ppmv)	TCA	PCE	TCE	CCl ₄	# of Days	CHCl ₃	1,1,1-TCA	PCE	TCE
START	1/1/2004	0:00	37987.0	3.11E+01	1.78E+01	1.14E+01	4.03E+01	1.24E+02	0.00	12.09	6.92	4.43	15.67	48.22
STOP	1/1/2004	18:40	37987.8	3.11E+01	1.78E+01	1.14E+01	4.03E+01	1.24E+02	0.78	12.09	6.92	4.43	15.67	48.22
START	1/5/2004	12:25	37991.5	5.93E+01	5.11E+01	3.33E+01	9.66E+01	2.48E+02	0.00	23.78	20.49	13.35	38.74	99.46
UNIT D-1/6/04	1/6/2004	7:40	37992.3	4.08E+01	3.03E+01	1.94E+01	6.35E+01	1.42E+02	0.80	36.69	27.25	17.45	57.11	127.70
UNIT D-1/7/04	1/7/2004	7:35	37993.3	3.48E+01	2.04E+01	1.15E+01	4.47E+01	1.14E+02	1.80	35.04	20.54	11.58	45.01	114.79
UNIT D-1/8/04	1/8/2004	8:00	37994.3	3.66E+01	2.30E+01	1.39E+01	5.12E+01	1.25E+02	2.82	91.82	57.70	34.87	128.44	313.59
UNIT D-1/12/04	1/12/2004	8:00	37998.3	2.35E+01	1.46E+01	1.06E+01	2.98E+01	7.29E+01	6.82	62.87	39.06	28.36	79.73	195.03
STOP	1/13/2004	16:25	37999.7	3.07E+01	1.99E+01	1.40E+01	4.16E+01	9.03E+01	8.17	20.73	13.44	9.45	28.09	60.98
START	1/13/2004	17:59	37999.7	3.07E+01	1.99E+01	1.40E+01	4.16E+01	9.03E+01	0.00	8.65	5.60	3.94	11.71	25.43
UNIT D-1/14/04	1/14/2004	7:30	38000.3	2.91E+01	1.85E+01	1.26E+01	4.02E+01	8.28E+01	0.56	23.05	14.65	9.98	31.84	65.58
UNIT D-1/15/04	1/15/2004	8:00	38001.3	2.92E+01	1.53E+01	9.49E+00	3.49E+01	8.31E+01	1.58	73.15	38.33	23.77	87.43	208.18
UNIT D-1/19/04	1/19/2004	7:45	38005.3	2.90E+01	1.72E+01	1.15E+01	3.46E+01	9.03E+01	5.57	72.05	42.73	28.57	85.96	224.34
UNIT D-1/20/04	1/20/2004	7:15	38006.3	2.20E+01	1.29E+01	8.65E+00	2.72E+01	6.87E+01	6.55	21.77	12.77	8.56	26.92	67.98
UNIT D-1/21/04	1/21/2004	7:15	38007.3	2.90E+01	2.04E+01	1.45E+01	4.28E+01	9.22E+01	7.55	29.45	20.72	14.73	43.47	93.64
UNIT D-1/22/04	1/22/2004	8:00	38008.3	2.62E+01	1.92E+01	1.48E+01	4.28E+01	7.86E+01	8.58	65.73	48.17	37.13	107.37	197.18
UNIT D-1/26/04	1/26/2004	7:40	38012.3	2.16E+01	1.45E+01	1.10E+01	3.11E+01	6.57E+01	12.57	53.77	36.10	27.39	77.43	163.57
UNIT D-1/27/04	1/27/2004	7:30	38013.3	2.27E+01	1.49E+01	1.05E+01	3.28E+01	6.78E+01	13.56	22.74	14.93	10.52	32.86	67.92
UNIT D-1/28/04	1/28/2004	7:45	38014.3	3.01E+01	1.93E+01	1.33E+01	4.14E+01	7.36E+01	14.57	30.41	19.50	13.44	41.83	74.37
UNIT D-1/29/04	1/29/2004	8:00	38015.3	2.98E+01	1.78E+01	1.19E+01	3.95E+01	7.21E+01	15.58	74.81	44.69	29.87	99.16	181.00
UNIT D-2/2/04	2/2/2004	8:15	38019.3	2.99E+01	2.16E+01	1.52E+01	4.14E+01	9.49E+01	19.59	74.54	53.85	37.89	103.21	236.59
UNIT D-2/3/04	2/3/2004	7:40	38020.3	3.19E+01	1.77E+01	1.07E+01	3.76E+01	9.55E+01	20.57	31.40	17.42	10.53	37.01	94.01
UNIT D-2/4/04	2/4/2004	7:30	38021.3	3.63E+01	2.10E+01	1.10E+01	4.42E+01	1.47E+02	21.56	36.55	21.15	11.08	44.51	148.02
UNIT D-2/5/04	2/5/2004	8:00	38022.3	3.99E+01	2.78E+01	1.78E+01	5.96E+01	1.47E+02	22.58	99.82	69.55	44.53	149.10	367.76
UNIT D-2/9/04	2/9/2004	7:35	38026.3	3.50E+01	2.51E+01	1.83E+01	4.78E+01	1.15E+02	26.57	87.26	62.58	45.62	119.17	286.70

Table C-1. (continued).

ID NUMBER	SAMPLE DATE	SAMPLE TIME	DECIMAL DATE	ACTUAL DATA						RIEMANN SUMS					
				CHCl ₃	TCA	PCE	TCE	CCl ₄	# of Days	CHCl ₃	1,1,1-TCA	PCE	TCE	CCl ₄	
UNIT D-2/10/04	2/10/2004	7:40	38027.3	3.63E+01	2.61E+01	1.91E+01	5.15E+01	1.07E+02	27.57	36.43	26.19	19.17	51.68	107.37	
UNIT D-2/11/04	2/11/2004	7:45	38028.3	3.25E+01	2.07E+01	1.44E+01	4.19E+01	8.98E+01	28.57	32.73	20.84	14.50	42.19	90.42	
UNIT D-2/12/04	2/12/2004	8:00	38029.3	3.76E+01	2.55E+01	1.79E+01	5.20E+01	1.08E+02	29.58	94.33	63.97	44.91	130.45	270.94	
UNIT D-2/16/04	2/16/2004	8:10	38033.3	4.18E+01	3.00E+01	1.83E+01	5.67E+01	1.87E+02	33.59	104.50	75.00	45.75	141.75	467.50	
UNIT D-2/23/04	2/23/2004	7:30	38040.3	4.51E+01	2.43E+01	1.28E+01	5.42E+01	1.86E+02	40.56	112.28	60.52	31.87	134.94	463.06	
UNIT D-2/24/04	2/24/2004	7:30	38041.3	5.13E+01	2.64E+01	1.30E+01	6.14E+01	2.02E+02	41.56	51.57	26.54	13.07	61.72	203.05	
UNIT D-2/25/04	2/25/2004	7:45	38042.3	4.35E+01	2.33E+01	1.22E+01	5.43E+01	1.54E+02	42.57	43.95	23.54	12.33	54.87	155.60	
UNIT D-2/26/04	2/26/2004	8:00	38043.3	5.17E+01	2.39E+01	1.12E+01	6.19E+01	1.85E+02	43.58	138.14	63.86	29.93	165.39	494.30	
UNIT D-3/1/04	3/1/2004	16:00	38047.7	6.45E+00	4.70E+00	2.95E+00	9.35E+00	2.75E+01	47.92	16.01	11.67	7.32	23.21	68.27	
UNIT D-3/2/04	3/2/2004	7:10	38048.3	1.02E+01	8.19E+00	4.39E+00	1.48E+01	4.26E+01	48.55	8.50	6.83	3.66	12.33	35.50	
UNIT D-3/3/04	3/3/2004	8:00	38049.3	1.06E+01	9.24E+00	4.92E+00	1.69E+01	4.37E+01	49.58	10.78	9.40	5.01	17.19	44.46	
UNIT D-3/4/04	3/4/2004	8:00	38050.3	1.21E+01	9.65E+00	5.13E+00	1.91E+01	5.10E+01	50.58	30.25	24.13	12.83	47.75	127.50	
STOP	3/8/2004	8:00	38054.3	1.27E+01	1.33E+01	9.38E+00	2.39E+01	4.45E+01	54.58	25.40	26.60	18.76	47.80	89.00	
START	3/8/2004	9:30	38054.4	1.27E+01	1.33E+01	9.38E+00	2.39E+01	4.45E+01	0.00	5.78	6.05	4.27	10.87	20.24	
UNIT D-3/9/04	3/9/2004	7:20	38055.3	1.45E+01	1.32E+01	8.54E+00	2.44E+01	5.59E+01	0.91	13.97	12.72	8.23	23.51	53.86	
UNIT D-3/10/04	3/10/2004	7:45	38056.3	1.64E+01	1.35E+01	7.85E+00	2.53E+01	7.08E+01	1.93	16.63	13.69	7.96	25.65	71.78	
UNIT D-3/11/04	3/11/2004	8:00	38057.3	1.54E+01	1.25E+01	7.40E+00	2.45E+01	6.39E+01	2.94	39.48	32.04	18.97	62.81	163.81	
UNIT D-3/15/04	3/15/2004	10:48	38061.5	1.48E+01	1.20E+01	8.34E+00	2.26E+01	6.42E+01	7.05	36.72	29.77	20.69	56.07	159.27	
UNIT D-3/16/04	3/16/2004	7:05	38062.3	1.66E+01	1.20E+01	7.59E+00	2.33E+01	6.13E+01	7.90	15.46	11.18	7.07	21.70	57.09	
UNIT D-3/17/04	3/17/2004	7:30	38063.3	1.53E+01	1.06E+01	6.25E+00	2.16E+01	5.57E+01	8.92	15.69	10.87	6.41	22.15	57.11	
STOP	3/18/2004	8:18	38064.3	1.45E+01	1.02E+01	6.06E+00	2.19E+01	5.40E+01	9.95	7.49	5.27	3.13	11.31	27.90	
START	3/24/2004	16:25	38070.7	1.38E+01	1.02E+01	5.85E+00	2.23E+01	5.53E+01	0.00	4.48	3.31	1.90	7.24	17.95	
UNIT D-3/25/04	3/25/2004	8:00	38071.3	1.22E+01	9.72E+00	5.82E+00	2.11E+01	4.61E+01	0.65	28.49	22.70	13.59	49.27	107.65	
UNIT D-3/29/04	3/29/2004	8:30	38075.4	1.10E+01	1.14E+01	9.42E+00	2.13E+01	3.70E+01	4.67	27.54	28.54	23.58	53.32	92.63	
UNIT D-3/30/04	3/30/2004	8:10	38076.3	1.10E+01	1.00E+01	7.39E+00	1.91E+01	3.49E+01	5.66	10.81	9.83	7.26	18.77	34.29	

Table C-1. (continued).

ID NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE DECIMAL DATE	ACTUAL DATA						RIEMANN SUMS					
				CHCl ₃	TCA	PCE	TCE	CCl ₄	# of Days	CHCl ₃	1,1,1-TCA	PCE	TCE	CCl ₄	
UNIT D-3/31/04	3/31/2004	7:40	38077.3	1.19E+01	9.28E+00	6.11E+00	1.88E+01	3.67E+01	6.64	11.86	9.25	6.09	18.73	36.57	
UNIT D-4/1/04	4/1/2004	8:00	38078.3	1.11E+01	8.46E+00	5.50E+00	1.84E+01	3.55E+01	7.65	27.83	21.21	13.79	46.13	89.00	
UNIT D-4/5/04	4/5/2004	8:00	38082.3	1.09E+01	9.13E+00	1.06E+01	1.82E+01	3.11E+01	11.65	27.36	22.91	26.60	45.68	78.05	
UNIT D-4/6/04	4/6/2004	8:28	38083.4	1.07E+01	8.49E+00	8.30E+00	1.66E+01	2.97E+01	12.67	10.77	8.55	8.36	16.72	29.91	
UNIT D-4/7/04	4/7/2004	8:20	38084.3	1.05E+01	8.61E+00	7.62E+00	1.75E+01	2.86E+01	13.66	10.40	8.53	7.55	17.33	28.32	
UNIT D-4/8/04	4/8/2004	8:00	38085.3	9.63E+00	7.91E+00	5.90E+00	1.63E+01	2.85E+01	14.65	24.10	19.80	14.77	40.80	71.33	
UNIT D-4/12/04	4/12/2004	8:28	38089.4	1.84E+01	8.96E+00	9.26E+00	2.59E+01	6.72E+01	18.67	45.90	22.35	23.10	64.62	167.65	
UNIT D-4/13/04	4/13/2004	7:45	38090.3	1.72E+01	1.08E+01	8.84E+00	2.66E+01	5.04E+01	19.64	17.01	10.68	8.74	26.31	49.86	
UNIT D-4/20/04	4/20/2004	8:04	38097.3	1.34E+01	9.59E+00	9.94E+00	2.15E+01	3.47E+01	26.65	13.43	9.61	9.96	21.54	34.77	
UNIT D-4/21/04	4/21/2004	8:06	38098.3	1.20E+01	7.79E+00	7.52E+00	1.80E+01	2.96E+01	27.65	11.98	7.78	7.51	17.98	29.56	
UNIT D-4/22/04	4/22/2004	8:00	38099.3	1.33E+01	9.40E+00	8.29E+00	2.05E+01	3.33E+01	28.65	33.68	23.81	21.00	51.92	84.34	
UNIT D-4/26/04	4/26/2004	9:40	38103.4	1.57E+01	1.40E+01	1.23E+01	2.57E+01	4.36E+01	32.72	39.33	35.07	30.81	64.38	109.23	
UNIT D-4/27/04	4/27/2004	8:15	38104.3	1.11E+01	7.99E+00	6.85E+00	1.75E+01	2.80E+01	33.66	10.86	7.82	6.70	17.13	27.41	
UNIT D-4/28/04	4/28/2004	8:39	38105.4	1.11E+01	7.07E+00	5.47E+00	1.54E+01	3.19E+01	34.68	11.04	7.03	5.44	15.32	31.73	
UNIT D-4/29/04	4/29/2004	8:00	38106.3	1.21E+01	8.54E+00	6.35E+00	1.90E+01	3.32E+01	35.65	30.38	21.44	15.94	47.70	83.35	
STOP	5/3/2004	9:09	38110.4	1.21E+01	8.54E+00	6.35E+00	1.90E+01	3.32E+01	39.70	24.49	17.28	12.85	38.46	67.20	
START	5/10/2004	9:55	38117.4	1.30E+01	1.21E+01	1.03E+01	2.57E+01	4.03E+01	0.00	5.95	5.54	4.71	11.76	18.44	
UNIT D-5/11/04	5/11/2004	7:53	38118.3	1.12E+01	8.23E+00	7.25E+00	1.86E+01	3.02E+01	0.92	10.64	7.82	6.88	17.66	28.68	
UNIT D-5/12/04	5/12/2004	7:30	38119.3	1.32E+01	1.01E+01	7.79E+00	2.13E+01	3.36E+01	1.90	13.23	10.12	7.81	21.35	33.68	
UNIT D-5/13/04	5/13/2004	8:00	38120.3	1.42E+01	1.20E+01	9.30E+00	2.57E+01	3.75E+01	2.92	35.66	30.14	23.36	64.54	94.18	
UNIT D-5/17/04	5/17/2004	8:03	38124.3	1.23E+01	8.79E+00	6.67E+00	1.64E+01	3.11E+01	6.92	30.60	21.87	16.59	40.80	77.37	
UNIT D-5/18/04	5/18/2004	7:25	38125.3	1.13E+01	7.47E+00	5.32E+00	1.53E+01	2.81E+01	7.90	11.33	7.49	5.33	15.34	28.17	
UNIT D-5/19/04	5/19/2004	8:10	38126.3	1.34E+01	9.62E+00	6.33E+00	1.83E+01	3.14E+01	8.93	13.56	9.74	6.41	18.52	31.78	
UNIT D-5/20/04	5/20/2004	8:00	38127.3	1.12E+01	7.80E+00	5.46E+00	1.72E+01	2.64E+01	9.92	27.72	19.30	13.51	42.56	65.33	
UNIT D-5/24/04	5/24/2004	6:57	38131.3	1.11E+01	9.45E+00	7.35E+00	1.77E+01	3.00E+01	13.88	28.96	24.66	19.18	46.19	78.28	
STOP	5/25/2004	13:15	38132.6	1.12E+01	9.02E+00	6.72E+00	1.76E+01	2.78E+01	15.14	7.07	5.69	4.24	11.11	17.55	

Table C-1. (continued).

ID NUMBER	SAMPLE DATE	SAMPLE TIME	DECIMAL DATE	ACTUAL DATA						RIEMANN SUMS					
				CHCl ₃	TCA	PCE	TCE	CCl ₄	# of Days	CHCl ₃	1,1,1-TCA	PCE	TCE	CCl ₄	
START	5/26/2004	17:17	38133.7	1.04E+01	7.53E+00	5.72E+00	1.70E+01	2.50E+01	0.00	3.19	2.31	1.75	5.21	7.66	
UNIT D-5/27/04	5/27/2004	8:00	38134.3	1.02E+01	7.29E+00	5.35E+00	1.66E+01	2.43E+01	0.61	28.63	20.46	15.02	46.59	68.20	
UNIT D-6/1/04	6/1/2004	8:00	38139.3	1.09E+01	8.44E+00	7.12E+00	1.52E+01	2.53E+01	5.61	32.70	25.32	21.36	45.60	75.90	
UNIT D-6/2/04	6/2/2004	8:00	38140.3	1.07E+01	8.19E+00	6.58E+00	1.61E+01	2.50E+01	6.61	10.70	8.19	6.58	16.10	25.00	
UNIT D-6/3/04	6/3/2004	8:00	38141.3	1.05E+01	8.15E+00	6.25E+00	1.64E+01	2.42E+01	7.61	26.25	20.38	15.63	41.00	60.50	
UNIT D-6/7/04	6/7/2004	8:00	38145.3	8.40E+00	6.42E+00	5.97E+00	1.10E+01	2.07E+01	11.61	21.17	16.18	15.05	27.73	52.18	
STOP	6/8/2004	9:00	38146.4	8.40E+00	6.42E+00	5.97E+00	1.10E+01	2.07E+01	12.65	4.37	3.34	3.11	5.73	10.78	
START	6/8/2004	17:00	38146.7	8.40E+00	6.42E+00	5.97E+00	1.10E+01	2.07E+01	0.00	2.58	1.97	1.83	3.38	6.36	
UNIT D-6/9/04	6/9/2004	7:45	38147.3	8.96E+00	6.70E+00	5.57E+00	1.25E+01	2.12E+01	0.61	7.28	5.44	4.53	10.16	17.23	
UNIT D-6/10/04	6/10/2004	8:00	38148.3	8.34E+00	6.47E+00	5.21E+00	1.23E+01	1.99E+01	1.63	20.93	16.24	13.07	30.87	49.94	
UNIT D-6/17/04	6/17/2004	8:00	38155.3	1.06E+01	8.93E+00	6.83E+00	1.70E+01	2.47E+01	8.63	26.44	22.28	17.04	42.41	61.61	
UNIT D-6/21/04	6/21/2004	7:49	38159.3	8.54E+00	7.37E+00	6.64E+00	1.22E+01	2.06E+01	12.62	21.28	18.36	16.54	30.40	51.33	
UNIT D-6/22/04	6/22/2004	7:36	38160.3	8.90E+00	7.09E+00	5.59E+00	1.23E+01	1.98E+01	13.61	8.91	7.10	5.60	12.32	19.83	
UNIT D-6/23/04	6/23/2004	7:53	38161.3	8.74E+00	6.86E+00	5.16E+00	1.21E+01	1.92E+01	14.62	8.81	6.92	5.20	12.20	19.36	
UNIT D-6/24/04	6/24/2004	8:00	38162.3	8.45E+00	6.31E+00	4.61E+00	1.17E+01	1.79E+01	15.63	21.20	15.83	11.57	29.36	44.91	
UNIT D-6/28/04	6/28/2004	8:19	38166.3	8.83E+00	8.09E+00	7.10E+00	1.22E+01	2.04E+01	19.64	22.08	20.23	17.75	30.50	51.01	
UNIT D-6/29/04	6/29/2004	8:01	38167.3	8.69E+00	7.27E+00	6.01E+00	1.20E+01	1.88E+01	20.63	9.18	7.68	6.35	12.67	19.85	
STOP	6/30/2004	11:00	38168.5	8.39E+00	6.77E+00	5.12E+00	1.12E+01	1.76E+01	21.75	4.72	3.81	2.88	6.30	9.89	
					162.72				3159	2155	1507	4486	10288		
				avg/day	19				13	9	28	63			
			Total days												
			(ft ³)		1820										
			n		2103										
			(lb)		554										
			Total (lb)		4530										
			Total Hours												3905.27

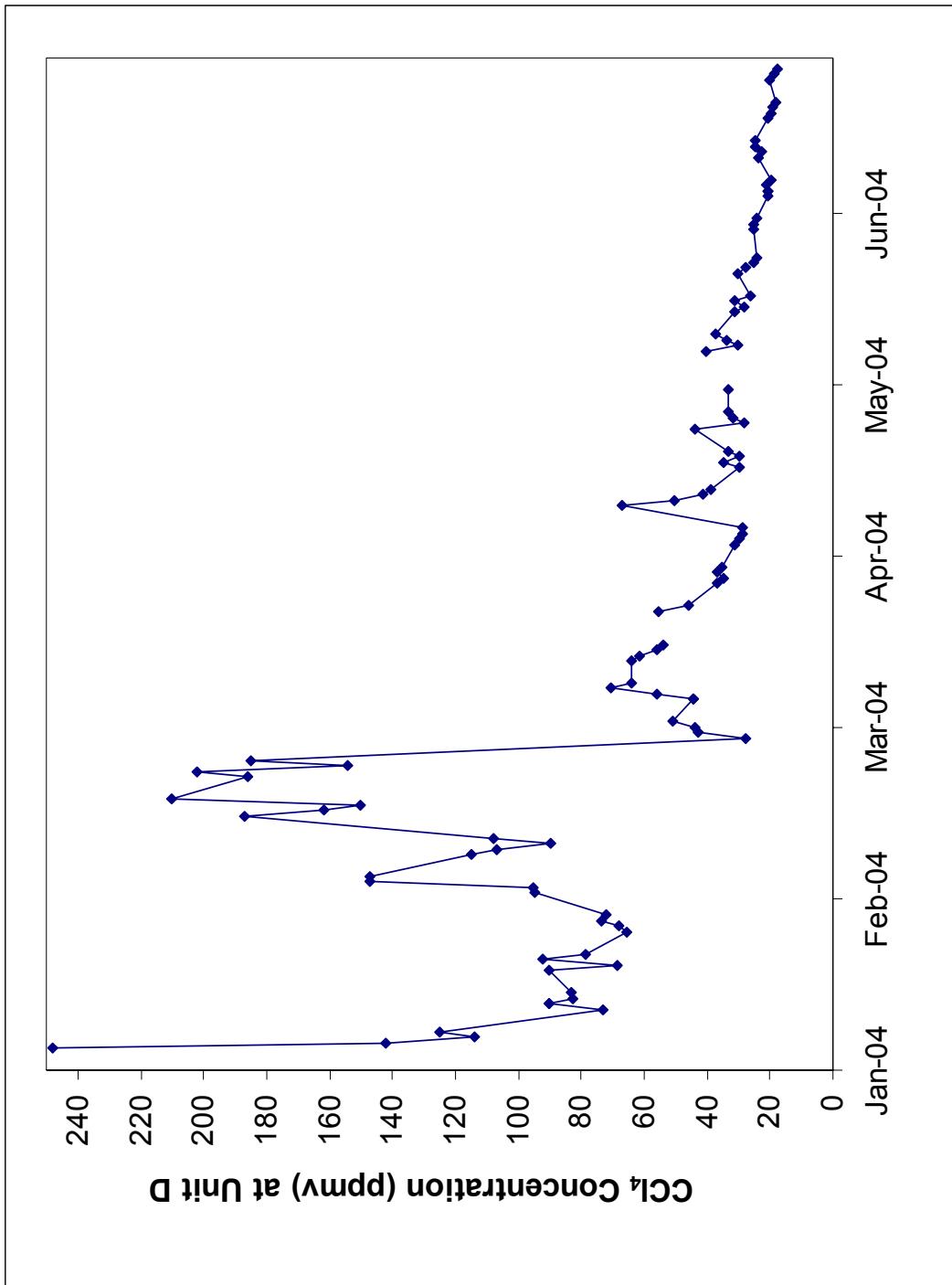


Figure C-1. Unit D mid-year 2004 inlet carbon tetrachloride sample concentration.

Table C-2. Unit E mid-year 2004 mass removal calculations.

ID NUMBER	SAMPLE DATE	SAMPLE TIME	DECIMAL DATE	ACTUAL DATA				RIEMANN SUMS			
				CHCl ₃	TCA	PCE	TCE	CCl ₄	# of Days	CHCl ₃	1,1,1-TCA
START	3/23/2004	8:30	38069.4	5.13E+02	1.39E+02	3.80E+01	3.24E+02	1.43E+03	0.00	299.96	81.28
STOP	3/24/2004	12:34	38070.5	3.22E+02	6.73E+01	1.93E+01	1.99E+02	6.19E+02	1.17	188.28	39.35
				(ppmv)	(ppmv)	(ppmv)	(ppmv)	(ppmv)	(ppmv*day)	(ppmv*day)	(ppmv*day)
UNIT E-3/25/04	3/25/2004	8:00	38071.3	2.36E+02	4.77E+01	1.31E+01	1.48E+02	4.21E+02	0.71	557.47	112.67
UNIT E-3/29/04	3/29/2004	8:15	38075.3	1.32E+02	3.40E+01	8.77E+00	7.36E+01	2.66E+02	4.72	329.54	84.88
UNIT E-3/30/04	3/30/2004	7:50	38076.3	1.35E+02	3.08E+01	6.98E+00	8.05E+01	2.67E+02	5.71	134.06	30.59
UNIT E-3/31/04	3/31/2004	7:55	38077.3	1.30E+02	2.90E+01	6.52E+00	7.96E+01	2.48E+02	6.71	130.45	29.10
UNIT E-4/1/04	4/1/2004	8:00	38078.3	1.20E+02	2.72E+01	6.46E+00	7.18E+01	2.20E+02	7.71	299.58	67.91
UNIT E-4/5/04	4/5/2004	7:45	38082.3	9.75E+01	2.40E+01	6.76E+00	5.53E+01	1.87E+02	11.70	227.50	56.00
UNIT E-4/6/04	4/6/2004	0:00	38083.0	9.60E+01	2.36E+01	7.14E+00	5.46E+01	1.84E+02	12.38	98.50	24.21
UNIT E-4/7/04	4/7/2004	9:00	38084.4	9.06E+01	2.35E+01	7.41E+00	4.93E+01	1.73E+02	13.76	105.70	27.42
UNIT E-4/8/04	4/8/2004	8:00	38085.3	1.28E+02	3.12E+01	8.76E+00	8.77E+01	2.87E+02	14.71	316.49	77.14
UNIT E-4/12/04	4/12/2004	7:41	38089.3	1.11E+02	2.87E+01	7.34E+00	7.47E+01	2.59E+02	18.70	278.27	71.95
UNIT E-4/13/04	4/13/2004	8:20	38090.3	9.52E+01	2.39E+01	6.02E+00	6.28E+01	2.06E+02	19.73	95.00	23.85
UNIT E-4/14/04	4/14/2004	7:35	38091.3	9.22E+01	2.21E+01	5.33E+00	6.04E+01	1.88E+02	20.70	91.56	21.95
UNIT E-4/15/04	4/15/2004	8:00	38092.3	9.56E+01	2.39E+01	5.56E+00	6.59E+01	2.14E+02	21.71	239.63	59.91
UNIT E-4/19/04	4/19/2004	7:54	38096.3	9.33E+01	2.71E+01	8.48E+00	6.04E+01	2.36E+02	25.71	233.12	67.71
UNIT E-4/20/04	4/20/2004	7:56	38097.3	9.05E+01	2.42E+01	6.95E+00	5.88E+01	2.10E+02	26.71	89.59	23.96
UNIT E-4/21/04	4/21/2004	7:25	38098.3	9.19E+01	2.39E+01	6.62E+00	6.03E+01	2.09E+02	27.69	92.03	23.93
UNIT E-4/22/04	4/22/2004	8:00	38099.3	8.92E+01	2.42E+01	6.84E+00	5.69E+01	1.98E+02	28.71	226.87	61.55
UNIT E-4/26/04	4/26/2004	9:30	38103.4	8.12E+01	2.44E+01	7.21E+00	4.77E+01	1.93E+02	32.78	203.28	61.84
UNIT E-4/27/04	4/27/2004	8:10	38104.3	8.95E+01	2.35E+01	5.56E+00	5.93E+01	2.17E+02	33.72	87.60	23.00
UNIT E-4/28/04	4/28/2004	8:29	38105.4	9.88E+01	2.44E+01	5.63E+00	7.56E+01	2.34E+02	34.73	98.46	24.32
UNIT E-4/29/04	4/29/2004	8:00	38106.3	7.43E+01	1.83E+01	4.67E+00	4.53E+01	1.52E+02	35.71	186.55	45.95
STOP	5/3/2004	9:00	38110.4	7.43E+01	1.83E+01	4.67E+00	4.53E+01	1.52E+02	39.76	150.15	36.98

Table C-2. (continued).

ID NUMBER	SAMPLE	SAMPLE	DECIMAL	ACTUAL DATA						RIEMANN SUMS				
				DATE	TIME	DATE	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	# of Days (ppmv*day)	CHCl ₃ (ppmv*day)	1,1,1-TCA (ppmv*day)
START	5/10/2004	9:55	38117.4	1.09E+02	3.00E+01	6.36E+00	3.66E+01	2.74E+02	0.00	50.60	13.93	2.95	16.99	127.20
UNIT E-5/11/04	5/11/2004	8:12	38118.3	6.84E+01	1.74E+01	4.13E+00	3.87E+01	1.36E+02	0.93	67.57	17.19	4.08	38.23	134.35
UNIT E-5/12/04	5/12/2004	9:20	38119.4	6.78E+01	1.87E+01	4.97E+00	3.89E+01	1.48E+02	1.98	67.52	18.62	4.95	38.74	147.38
UNIT E-5/13/04	5/13/2004	8:00	38120.3	7.22E+01	2.08E+01	5.56E+00	4.32E+01	1.68E+02	2.92	178.44	51.41	13.74	106.77	415.22
UNIT E-5/17/04	5/17/2004	7:58	38124.3	9.22E+01	2.47E+01	5.46E+00	6.66E+01	2.26E+02	6.92	229.16	61.39	13.57	165.53	561.70
UNIT E-5/18/04	5/18/2004	7:18	38125.3	8.59E+01	2.11E+01	4.71E+00	6.01E+01	1.86E+02	7.89	86.05	21.14	4.72	60.20	186.32
UNIT E-5/19/04	5/19/2004	8:03	38126.3	9.78E+01	2.73E+01	5.76E+00	7.63E+01	2.59E+02	8.92	99.23	27.70	5.84	77.41	262.78
UNIT E-5/20/04	5/20/2004	8:00	38127.3	7.66E+01	1.97E+01	4.09E+00	5.21E+01	1.79E+02	9.92	189.58	48.76	10.12	128.95	443.02
UNIT E-5/24/04	5/24/2004	6:51	38131.3	6.69E+01	2.04E+01	5.06E+00	3.95E+01	1.58E+02	13.87	174.47	53.20	13.20	103.02	412.06
STOP	5/25/2004	13:11	38132.5	7.54E+01	2.20E+01	4.78E+00	4.76E+01	1.92E+02	15.14	47.65	13.90	3.02	30.08	121.33
START	5/26/2004	16:14	38133.7	9.96E+01	3.53E+01	6.84E+00	4.82E+01	2.68E+02	0.00	32.72	11.60	2.25	15.83	88.03
UNIT E-5/27/04	5/27/2004	8:00	38134.3	6.90E+01	1.76E+01	3.75E+00	3.99E+01	1.47E+02	0.66	195.16	49.78	10.61	112.86	415.79
UNIT E-6/1/04	6/1/2004	8:00	38139.3	6.82E+01	1.97E+01	4.81E+00	4.12E+01	1.60E+02	5.66	204.60	59.10	14.43	123.60	480.00
UNIT E-6/2/04	6/2/2004	8:00	38140.3	6.93E+01	1.99E+01	4.93E+00	4.26E+01	1.64E+02	6.66	69.30	19.90	4.93	42.60	164.00
UNIT E-6/3/04	6/3/2004	8:00	38141.3	6.80E+01	1.94E+01	4.57E+00	4.27E+01	1.62E+02	7.66	169.74	48.43	11.41	106.59	404.38
UNIT E-6/7/04	6/7/2004	7:49	38145.3	5.57E+01	1.61E+01	4.69E+00	3.05E+01	1.14E+02	11.65	138.96	40.17	11.70	76.09	284.41
UNIT E-6/8/04	6/8/2004	7:45	38146.3	5.64E+01	1.61E+01	4.36E+00	3.11E+01	1.16E+02	12.65	56.28	16.07	4.35	31.04	115.76
UNIT E-6/9/04	6/9/2004	7:43	38147.3	6.17E+01	1.71E+01	4.46E+00	3.60E+01	1.39E+02	13.65	62.02	17.19	4.48	36.19	139.72
UNIT E-6/10/04	6/10/2004	8:00	38148.3	6.11E+01	1.69E+01	4.63E+00	3.65E+01	1.40E+02	14.66	153.17	42.37	11.61	91.50	350.97
UNIT E-6/14/04	6/14/2004	8:03	38152.3	5.94E+01	1.80E+01	4.97E+00	3.38E+01	1.42E+02	18.66	148.21	44.91	12.40	84.34	354.31
UNIT E-6/15/04	6/15/2004	7:46	38153.3	6.12E+01	1.85E+01	4.93E+00	3.50E+01	1.45E+02	19.65	61.03	18.45	4.92	34.90	144.60
UNIT E-6/16/04	6/16/2004	7:55	38154.3	6.33E+01	1.90E+01	5.08E+00	3.55E+01	1.48E+02	20.65	140.53	42.18	11.28	78.81	328.58
STOP	6/19/2004	18:20	38157.8	6.92E+01	2.02E+01	5.04E+00	4.14E+01	1.67E+02	24.09	118.82	34.68	8.65	71.08	286.74
START	6/21/2004	8:47	38159.4	8.60E+01	3.16E+01	7.03E+00	2.52E+01	1.76E+02	0.00	43.18	15.87	3.53	12.65	88.37
UNIT E-6/22/04	6/22/2004	8:53	38160.4	6.76E+01	1.92E+01	4.56E+00	3.77E+01	1.59E+02	1.00	66.10	18.77	4.46	36.86	155.47

Table C-2. (continued).

ID NUMBER	SAMPLE	SAMPLE	ACTUAL DATA						RIEMANN SUMS					
			DECIMAL	DATE	TIME	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	# of Days	CHCl ₃ (ppmv*day)	1,1,1-TCA (ppmv*day)	PCE (ppmv*day)
UNIT E-6/23/04	6/23/2004	7:43	38161.3	6.17E+01	1.74E+01	4.20E+00	3.60E+01	1.42E+02	1.96	60.56	17.08	4.12	35.34	139.39
UNIT E-6/24/04	6/24/2004	8:00	38162.3	6.28E+01	1.72E+01	4.03E+00	3.89E+01	1.43E+02	2.97	157.96	43.26	10.14	97.84	359.68
UNIT E-6/28/04	6/28/2004	8:27	38166.4	5.26E+01	1.66E+01	4.64E+00	3.12E+01	1.30E+02	6.99	131.65	41.55	11.61	78.09	325.36
UNIT E-6/29/04	6/29/2004	8:08	38167.3	6.66E+01	1.88E+01	4.80E+00	4.29E+01	1.60E+02	7.97	68.75	19.41	4.95	44.29	165.17
STOP	6/30/2004	10:00	38168.4	6.22E+01	1.73E+01	4.40E+00	3.92E+01	1.44E+02	9.05	33.52	9.32	2.37	21.12	77.60
						89.20	8177			2139	555	5054	18063	
						avg/day	92			24	6	57	203	
						Total days								
						(ft ³)	4710			1232	320	2911	10404	
						n	5444			1424	369	3365	12026	
						(lb)	1433			419	135	975	4078	
						Total (lb)	7040			Total Hours	2140.78			

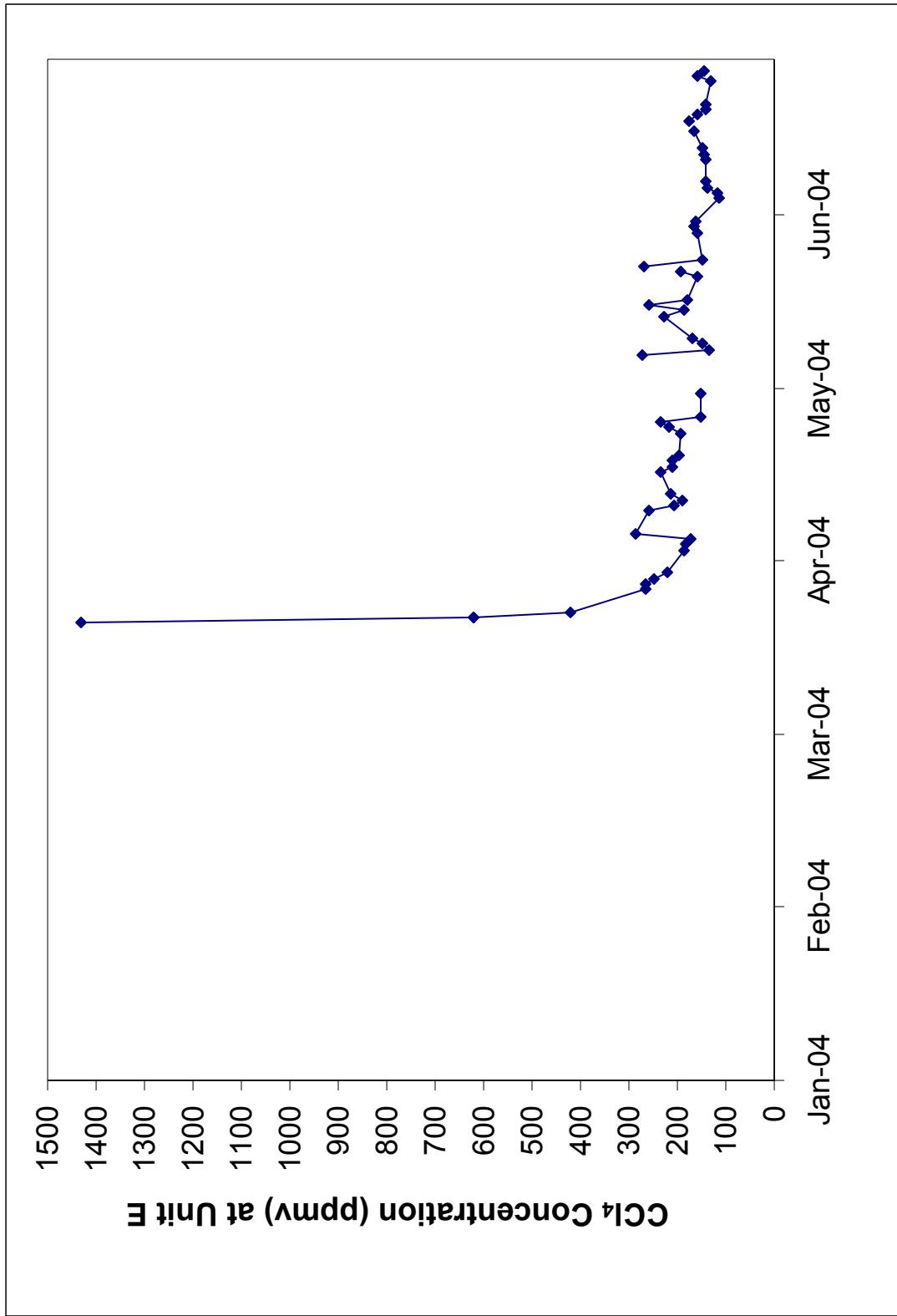


Figure C-2. Unit E mid-year 2004 inlet carbon tetrachloride sample concentration.

Table C-3. Unit F mid-year 2004 mass removal calculations.

ID NUMBER	SAMPLE	SAMPLE	ACTUAL DATA						RIEMANN SUMS						
			DATE	TIME	DECIMAL	CHCl ₃	TCA	PCE	TCE	CCl ₄	# of Days	CHCl ₃	1,1,1-TCA	PCE	TCE
START	1/6/2004	11:55	37992.5	1.20E+02	4.91E+01	1.71E+01	9.59E+01	4.19E+02	0.00	50.21	20.54	7.15	40.12	175.31	
UNIT F-1/7/04	1/7/2004	8:00	37993.3	1.64E+02	5.00E+01	2.10E+01	1.30E+02	5.50E+02	0.84	150.62	45.92	19.29	119.39	505.12	
UNIT F-1/8/04	1/8/2004	8:00	37994.3	1.88E+02	6.14E+01	2.47E+01	1.54E+02	6.95E+02	1.84	471.96	154.14	62.01	386.60	1744.74	
UNIT F-1/12/04	1/12/2004	8:30	37998.4	9.41E+01	3.15E+01	1.02E+01	7.63E+01	2.80E+02	5.86	251.26	84.11	27.24	203.73	747.64	
UNIT F-1/13/04	1/13/2004	16:10	37999.7	8.13E+00	5.29E+00	2.27E+00	9.23E+00	3.74E+01	7.18	8.47	5.51	2.37	9.62	38.98	
UNIT F-1/14/04	1/14/2004	10:32	38000.4	2.53E+02	8.86E+01	3.66E+01	2.42E+02	1.34E+03	7.94	209.95	73.53	30.37	200.83	1112.01	
UNIT F-1/15/04	1/15/2004	8:00	38001.3	8.03E+01	2.98E+01	1.01E+01	7.18E+01	2.53E+02	8.84	205.16	76.13	25.80	183.44	646.38	
UNIT F-1/19/04	1/19/2004	13:10	38005.5	8.26E+01	2.84E+01	1.15E+01	7.04E+01	2.48E+02	13.05	211.43	72.70	29.44	180.20	634.81	
UNIT F-1/20/04	1/20/2004	10:52	38006.5	1.93E+02	6.02E+01	2.55E+01	1.91E+02	8.65E+02	13.96	87.45	27.28	11.55	86.55	391.95	
UNIT F-1/21/04	1/21/2004	10:55	38006.5	2.61E+01	1.20E+01	5.03E+00	3.04E+01	1.19E+02	13.96	0.07	0.03	0.01	0.08	0.33	
UNIT F-1/21/04	1/21/2004	11:00	38006.5	2.14E+00	1.76E+00	1.73E+00	3.50E+00	8.70E+00	13.96	0.93	0.77	0.75	1.52	3.79	
UNIT F-1/21/04	1/21/2004	7:48	38007.3	9.03E+01	3.21E+01	1.39E+01	8.53E+01	4.28E+02	14.83	84.66	30.09	13.03	79.97	401.25	
UNIT F-1/22/04	1/22/2004	8:00	38008.3	1.68E+02	5.13E+01	1.81E+01	1.91E+02	5.64E+02	15.84	425.66	129.98	45.86	483.93	1429.00	
UNIT F-1/26/04	1/26/2004	9:25	38012.4	1.57E+02	4.74E+01	1.43E+01	1.61E+02	5.31E+02	19.90	396.26	119.64	36.09	406.36	1340.22	
UNIT F-1/27/04	1/27/2004	9:09	38013.4	1.15E+02	3.28E+01	1.03E+01	1.10E+02	3.24E+02	20.88	116.52	33.23	10.44	111.45	328.27	
SSTOP	1/28/2004	10:03	38014.4	1.15E+02	3.28E+01	1.03E+01	1.10E+02	3.24E+02	21.92	59.66	17.01	5.34	57.06	168.07	
START	3/3/2004	8:00	38049.3	2.22E+02	1.08E+02	3.05E+01	1.65E+02	9.47E+02	0.00	37.00	18.00	5.08	27.50	157.83	
SSTOP	3/3/2004	16:00	38049.7	3.07E+02	1.29E+02	3.81E+01	2.36E+02	1.29E+03	0.33	51.17	21.50	6.35	39.33	215.00	
START	3/15/2004	16:15	38061.7	3.17E+02	1.16E+02	3.43E+01	2.35E+02	1.19E+03	0.00	102.69	37.58	11.11	76.13	385.51	
UNIT F-3/16/04	3/16/2004	7:48	38062.3	2.57E+02	7.92E+01	2.41E+01	2.17E+02	7.93E+02	0.65	211.04	65.04	19.79	178.20	651.20	
UNIT F-3/17/04	3/17/2004	7:40	38063.3	2.10E+02	6.20E+01	1.84E+01	1.79E+02	6.00E+02	1.64	212.26	62.67	18.60	180.93	606.46	
STOP	3/18/2004	8:19	38064.3	2.05E+02	5.77E+01	1.63E+01	1.78E+02	5.63E+02	2.67	105.28	29.63	8.37	91.41	289.12	
UNIT F-3/22/04	3/22/2004	14:00	38068.6	2.02E+02	6.01E+01	1.92E+01	1.86E+02	6.11E+02	0.00	76.80	22.85	7.30	70.72	232.31	
UNIT F-3/23/04	3/23/2004	8:15	38069.3	1.94E+02	5.70E+01	1.79E+01	1.77E+02	5.71E+02	0.76	172.44	50.67	15.91	157.33	507.56	

Table C-3. (continued).

ID NUMBER	SAMPLE	SAMPLE	ACTUAL DATA						RIEMANN SUMS							
			DECIMAL	DATE	TIME	DATE	CHCl ₃	TCA	PCE	TCE	CCl ₄	# of Days	CHCl ₃	1,1,1-TCA	PCE	TCE
			(ppmv)				(ppmv)	(ppmv)	(ppmv)	(ppmv)	(ppmv)	(ppmv)	(ppmv*day)	(ppmv*day)	(ppmv*day)	(ppmv*day)
UNIT F-3/24/04	3/24/2004	8:40	38070.4	1.47E+02	4.13E+01	1.36E+01	1.32E+02	3.91E+02	1.78	146.23	41.08	13.53	131.31	388.96		
UNIT F-3/25/05	3/25/2004	8:00	38071.3	1.32E+02	3.62E+01	1.23E+01	1.28E+02	3.44E+02	2.75	328.40	90.06	30.60	318.44	855.82		
UNIT F-3/29/04	3/29/2004	8:05	38075.3	1.29E+02	3.71E+01	1.34E+01	1.36E+02	3.68E+02	6.75	321.38	92.43	33.38	338.82	916.81		
UNIT F-3/30/04	3/30/2004	7:35	38076.3	8.62E+01	2.54E+01	9.93E+00	8.08E+01	2.13E+02	7.73	86.50	25.49	9.96	81.08	213.74		
UNIT F-3/31/04	3/31/2004	8:15	38077.3	7.65E+01	2.28E+01	8.72E+00	6.78E+01	1.89E+02	8.76	77.16	23.00	8.80	68.39	190.64		
UNIT F-4/1/04	4/1/2004	8:00	38078.3	8.14E+01	2.33E+01	8.84E+00	8.02E+01	2.12E+02	9.75	202.23	57.89	21.96	199.25	526.69		
UNIT F-4/5/04	4/5/2004	7:30	38082.3	7.63E+01	2.21E+01	8.41E+00	7.84E+01	2.01E+02	13.73	190.43	55.16	20.99	195.67	501.66		
UNIT F-4/6/04	4/6/2004	7:48	38083.3	7.36E+01	2.15E+01	7.84E+00	7.64E+01	1.99E+02	14.74	75.52	22.06	8.04	78.39	204.18		
UNIT F-4/7/04	4/7/2004	8:45	38084.4	9.13E+01	2.67E+01	8.78E+00	1.04E+02	2.71E+02	15.78	91.68	26.81	8.82	104.43	272.13		
UNIT F-4/8/04	4/8/2004	8:00	38085.3	1.77E+01	7.13E+00	2.98E+01	1.45E+01	3.29E+01	16.75	44.06	17.75	7.42	36.09	81.90		
UNIT F-4/12/04	4/12/2004	8:14	38089.3	5.98E+01	2.21E+01	1.03E+01	4.83E+01	1.29E+02	20.76	149.79	55.36	25.80	120.98	323.13		
UNIT F-4/13/04	4/13/2004	8:14	38090.3	4.97E+01	1.55E+01	6.85E+00	4.94E+01	1.30E+02	21.76	49.15	15.33	6.77	48.85	128.56		
UNIT F-4/14/04	4/14/2004	7:42	38091.3	4.55E+01	1.44E+01	6.38E+00	4.38E+01	1.19E+02	22.74	45.28	14.33	6.35	43.59	118.42		
UNIT F-4/15/04	4/15/2004	8:00	38092.3	4.48E+01	1.39E+01	6.14E+00	4.65E+01	1.13E+02	23.75	112.11	34.78	15.36	116.36	282.77		
UNIT F-4/19/04	4/19/2004	7:49	38096.3	5.70E+01	1.78E+01	7.05E+00	6.80E+01	1.68E+02	27.74	142.32	44.44	17.60	169.79	419.47		
UNIT F-4/20/04	4/20/2004	7:51	38097.3	4.59E+01	1.45E+01	5.98E+00	5.16E+01	1.27E+02	28.74	46.01	14.54	5.99	51.73	127.31		
UNIT F-4/21/04	4/21/2004	7:56	38098.3	3.82E+01	1.22E+01	5.24E+00	4.15E+01	1.01E+02	29.75	38.32	12.24	5.26	41.63	101.32		
UNIT F-4/22/04	4/22/2004	8:00	38099.3	5.39E+01	1.70E+01	6.26E+00	6.82E+01	1.69E+02	30.75	136.49	43.05	15.85	172.70	427.96		
UNIT F-4/26/04	4/26/2004	9:29	38103.4	6.26E+01	2.06E+01	6.95E+00	8.02E+01	2.09E+02	34.81	156.67	51.56	17.39	200.72	523.08		
UNIT F-4/27/04	4/27/2004	8:08	38104.3	4.10E+01	1.40E+01	5.67E+00	4.23E+01	1.06E+02	35.76	39.88	13.62	5.51	41.14	103.09		
UNIT F-4/28/04	4/28/2004	8:10	38105.3	3.46E+01	1.29E+01	5.75E+00	3.53E+01	9.54E+01	36.76	34.50	12.86	5.73	35.20	95.14		
UNIT F-4/29/04	4/29/2004	8:00	38106.3	4.22E+01	1.39E+01	5.41E+00	4.75E+01	1.18E+02	37.75	104.87	34.54	13.44	118.04	293.24		
UNIT F-5/3/04	5/3/2004	7:27	38110.3	3.81E+01	1.40E+01	6.92E+00	3.76E+01	9.57E+01	41.73	94.85	34.85	17.23	93.61	238.25		
UNIT F-5/4/04	5/4/2004	7:30	38111.3	5.10E+01	1.67E+01	6.61E+00	5.00E+01	1.36E+02	42.73	50.98	16.69	6.61	49.98	135.95		
UNIT F-5/5/04	5/5/2004	7:26	38112.3	4.85E+01	1.60E+01	5.88E+00	4.60E+01	1.34E+02	43.73	49.01	16.17	5.94	46.48	135.40		
UNIT F-5/6/04	5/6/2004	8:00	38113.3	7.63E+01	2.12E+01	6.23E+00	7.10E+01	2.05E+02	44.75	192.45	53.47	15.71	179.08	517.06		
UNIT F-5/10/04	5/10/2004	8:30	38117.4	4.12E+01	1.39E+01	5.25E+00	3.56E+01	1.01E+02	48.77	103.01	34.75	13.13	89.01	252.54		

Table C-3. (continued).

ID NUMBER	SAMPLE	SAMPLE	DECIMAL	ACTUAL DATA					RIEMANN SUMS						
				DATE	TIME	DATE	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCL ₄ (ppmv)	# of Days	CHCl ₃ (ppmv*day)	1,1,1-TCA (ppmv*day)	PCE (ppmv*day)
UNIT F-5/11/04	5/11/2004	8:01	38118.3	4.16E+01	1.34E+01	5.01E+00	3.75E+01	1.00E+02	49.75	43.00	13.85	5.18	38.76	103.37	
STOP	5/12/2004	10:07	38119.4	5.01E+01	1.63E+01	5.21E+00	5.98E+01	1.51E+02	50.84	27.24	8.86	2.83	32.52	82.11	
START	5/12/2004	14:13	38119.6	5.01E+01	1.63E+01	5.21E+00	5.98E+01	1.51E+02	0.00	25.21	8.20	2.62	30.09	75.97	
STOP	5/13/2004	14:22	38120.6	6.69E+01	2.13E+01	6.54E+00	8.87E+01	2.14E+02	1.01	33.66	10.72	3.29	44.63	107.67	
START	5/19/2004	13:37	38126.6	4.38E+01	1.41E+01	5.91E+00	4.11E+01	9.89E+01	0.00	16.77	5.40	2.26	15.74	37.88	
UNIT F-5/20/04	5/20/2004	8:00	38127.3	3.29E+01	1.19E+01	4.93E+00	3.47E+01	8.65E+01	0.77	79.62	28.80	11.93	83.98	209.34	
UNIT F-5/24/04	5/24/2004	9:47	38131.4	5.07E+01	1.83E+01	5.38E+00	6.61E+01	1.74E+02	4.84	132.19	47.71	14.03	172.34	453.67	
STOP	5/25/2004	13:09	38132.5	3.74E+01	1.36E+01	4.62E+00	4.48E+01	1.12E+02	5.98	21.32	7.75	2.63	25.54	63.86	
START	5/25/2004	15:47	38132.7	3.74E+01	1.36E+01	4.62E+00	4.48E+01	1.12E+02	0.00	12.25	4.45	1.51	14.67	36.67	
UNIT F-5/26/04	5/26/2004	7:30	38133.3	4.67E+01	1.58E+01	4.95E+00	5.06E+01	1.36E+02	0.65	39.13	13.24	4.15	42.40	113.95	
UNIT F-5/27/04	5/27/2004	8:00	38134.3	4.22E+01	1.39E+01	4.67E+00	4.93E+01	1.18E+02	1.68	127.04	41.84	14.06	148.41	355.23	
UNIT F-6/1/04	6/1/2004	8:00	38139.3	4.06E+01	1.40E+01	4.96E+00	4.86E+01	1.20E+02	6.68	121.80	42.00	14.88	145.80	360.00	
UNIT F-6/2/04	6/2/2004	8:00	38140.3	4.48E+01	1.55E+01	5.04E+00	5.76E+01	1.42E+02	7.68	44.80	15.50	5.04	57.60	142.00	
UNIT F-6/3/04	6/3/2004	8:00	38141.3	4.39E+01	1.49E+01	4.88E+00	5.70E+01	1.36E+02	8.68	109.93	37.31	12.22	142.74	340.57	
UNIT F-6/7/04	6/7/2004	8:12	38145.3	3.23E+01	1.17E+01	4.44E+00	3.20E+01	8.48E+01	12.68	80.56	29.18	11.07	79.81	211.50	
UNIT F-6/8/04	6/8/2004	7:43	38146.3	3.38E+01	1.20E+01	4.49E+00	3.59E+01	9.60E+01	13.66	33.54	11.91	4.46	35.63	95.27	
UNIT F-6/9/04	6/9/2004	7:50	38147.3	3.22E+01	1.13E+01	4.49E+00	3.50E+01	8.62E+01	14.67	32.39	11.37	4.52	35.21	86.71	
UNIT F-6/10/04	6/10/2004	8:00	38148.3	3.46E+01	1.18E+01	4.51E+00	4.00E+01	9.51E+01	15.68	86.54	29.51	11.28	100.04	237.85	
UNIT F-6/14/04	6/14/2004	7:53	38152.3	3.75E+01	1.33E+01	4.80E+00	4.37E+01	1.12E+02	19.67	93.67	33.22	11.99	109.16	279.77	
UNIT F-6/15/04	6/15/2004	7:54	38153.3	4.42E+01	1.52E+01	5.14E+00	5.40E+01	1.36E+02	20.67	44.09	15.16	5.13	53.87	135.67	
UNIT F-6/16/04	6/16/2004	7:46	38154.3	5.19E+01	1.76E+01	5.69E+00	6.70E+01	1.70E+02	21.67	52.01	17.64	5.70	67.14	170.35	
UNIT F-6/17/04	6/17/2004	8:00	38155.3	4.45E+01	1.52E+01	5.22E+00	5.77E+01	1.39E+02	22.68	111.33	38.03	13.06	144.35	347.74	
UNIT F-6/21/04	6/21/2004	7:51	38159.3	4.71E+01	1.58E+01	4.09E+00	4.98E+01	1.46E+02	26.67	117.62	39.46	10.21	124.36	364.59	
UNIT F-6/22/04	6/22/2004	7:52	38160.3	3.65E+01	1.25E+01	4.35E+00	3.97E+01	9.86E+01	27.67	36.70	12.57	4.37	39.92	99.15	

Table C-3. (continued).

ID NUMBER	SAMPLE	SAMPLE	DECIMAL	ACTUAL DATA					RIEMANN SUMS						
				DATE	TIME	DATE	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCL ₄ (ppmv)	# of Days	CHCl ₃ (ppmv*day)	1,1,1-TCA (ppmv*day)	PCE (ppmv*day)
UNIT F-6/23/04	6/23/2004	8:07	38161.3	3.36E+01	1.16E+01	4.12E+00	3.83E+01	9.47E+01	28.68	33.69	11.63	4.13	38.41	94.96	
UNIT F-6/24/04	6/24/2004	8:00	38162.3	3.46E+01	1.17E+01	4.26E+00	3.91E+01	9.39E+01	29.68	86.81	29.36	10.69	98.10	235.60	
UNIT F-6/28/04	6/28/2004	8:33	38166.4	3.34E+01	1.23E+01	4.77E+00	3.64E+01	9.74E+01	33.70	83.65	30.81	11.95	91.16	243.94	
UNIT F-6/29/04	6/29/2004	8:13	38167.3	3.00E+01	1.09E+01	4.56E+00	3.17E+01	8.04E+01	34.68	29.55	10.74	4.49	31.23	79.20	
UNIT F-6/30/04	6/30/2004	7:50	38168.3	2.85E+01	1.04E+01	4.21E+00	3.11E+01	7.77E+01	35.67	23.62	8.62	3.49	25.78	64.40	
UNIT F-6/30/04	6/30/2004	23:59	38169.0	5.19E+01	1.61E+01	4.80E+00	5.79E+01	1.54E+02	36.34	17.48	5.42	1.62	19.50	51.87	
							119.09	8605		2773	997		8632	26369	
							avg/day		72	23	8		72	221	
							Total days								
							(ft ³)	4957		1597	574		4972	15188	
							n	5730		1846	664		5747	17556	
							(lb)	1508		543	243		1665	5953	
							Total (lb)	9912		Total Hours	2858.22				

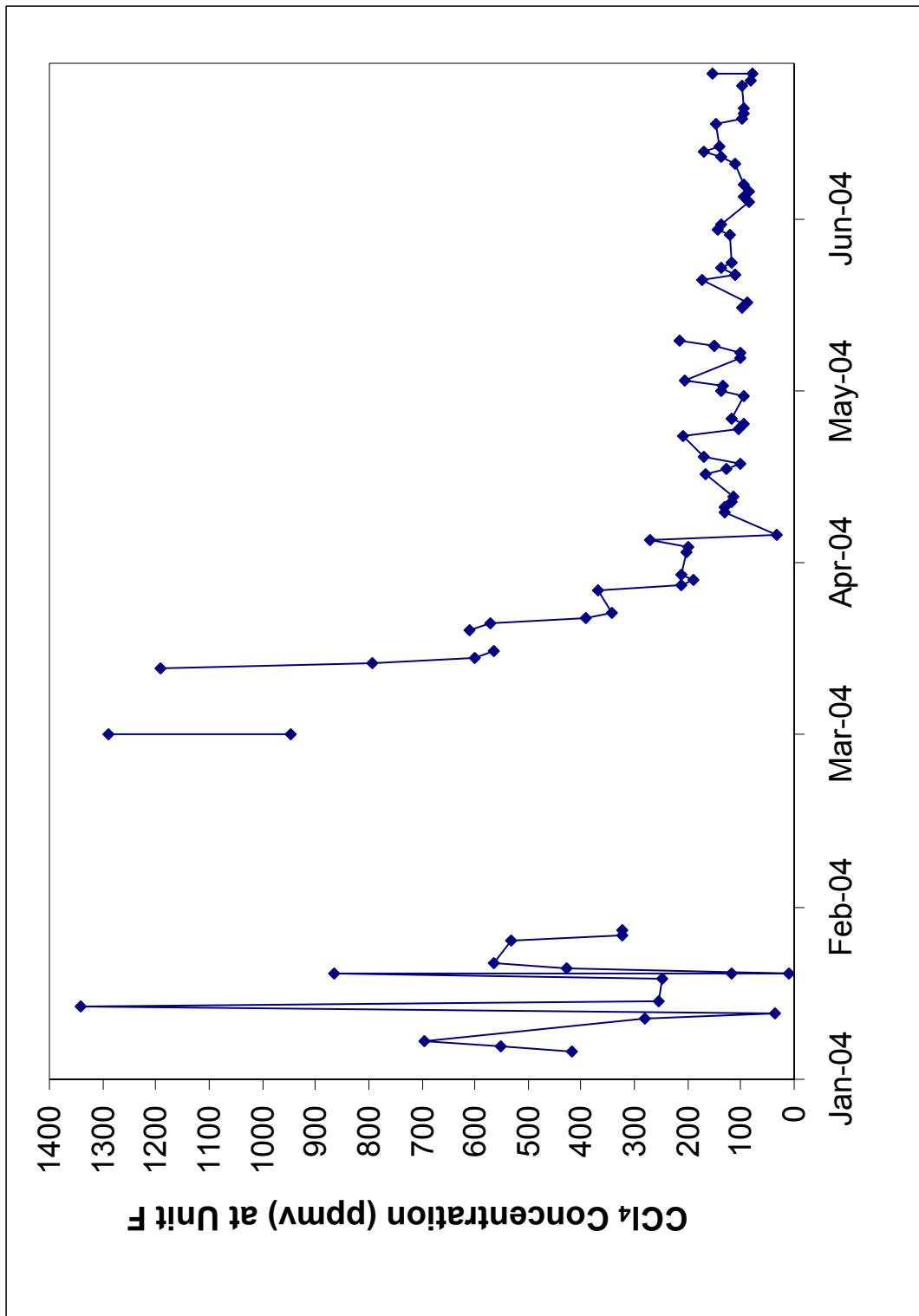


Figure C-3. Unit F mid-year 2004 inlet carbon tetrachloride sample concentration.

Table C-4. Breakdown per operating cycle of the mass of contaminants removed through June 2004.

Operating Period	Year	CHCl ₃ (kg)	TCA (kg)	PCE (kg)	TCE (kg)	CCl ₄ (kg)	Total (kg)
First 8 weeks	1996	510	151	106	461	2,277	3,505
Percentage of total		15%	4%	3%	13%	65%	
Second 8 weeks	1996	258	80	64	247	1,203	1,853
Percentage of total		14%	4%	3%	13%	65%	
Third 8 weeks	1996	169	51	36	151	753	1,159
Percentage of total		15%	4%	3%	13%	65%	
First quarter	1997	196	48	28	142	857	1,270
Percentage of total		15%	4%	2%	11%	67%	
Second quarter	1997	497	165	134	494	2,393	3,684
Percentage of total		13%	4%	4%	13%	65%	
Third quarter	1997	291	54	65	273	1,266	1,949
Percentage of total		15%	3%	3%	14%	65%	
Fourth quarter	1997	547	155	110	449	2,452	3,713
Percentage of total		15%	4%	3%	12%	66%	
Midyear	1998	489	153	112	436	2,147	3,337
Percentage of total		15%	5%	3%	13%	64%	
End-Year	1998	674	175	191	714	2,768	4,523
Percentage of total		15%	4%	4%	16%	61%	
Midyear	1999	378	98	74	404	1,860	2,814
Percentage of total		13%	4%	3%	14%	66%	
End-Year	1999	514	178	163	637	2,490	3,982
Percentage of total		13%	4%	4%	16%	63%	
Midyear	2000	528	149	139	608	2,414	3,838
Percentage of total		14%	4%	4%	16%	63%	
End-Year	2000	286	58	31	257	1,331	1964
Percentage of total		14%	3%	2%	13%	68%	
Midyear	2001	697	123	147	612	2,795	4,374
Percentage of total		16%	3%	3%	14%	64%	
End-Year	2001	777	232	151	837	3,320	5,317
Percentage of total		15%	4%	3%	16%	62%	
Midyear	2002	937	438	234	1,082	3,576	6,267
Percentage of total		15%	7%	4%	17%	57%	
End-Year	2002	1094	461	243	1141	3846	6785
Percentage of total		16%	7%	4%	17%	57%	
Midyear	2003	804	328	184	836	2835	4987
Percentage of total		16%	7%	4%	17%	57%	
End-Year	2003	510	245	163	577	1942	3437
Percentage of total		15%	7%	5%	17%	57%	

Table C-4. (continued).

Operating Period	Year	CHCl ₃ (kg)	TCA (kg)	PCE (kg)	TCE (kg)	CCl ₄ (kg)	Total (kg)
Midyear	2004	1600	600	300	1600	5600	9700
Percentage of total		16%	6%	3%	16%	58%	
Total	1996-June 2004	11,800	3,900	2,700	12,000	48,100	78,500
Percentage of total		15%	5%	3%	15%	61%	

CCl₄ = Carbon Tetrachloride
 CHCl₃ = Chloroform
 PCE = Tetrachloroethylene
 TCA = Trichloroethane
 TCE = Trichloroethylene

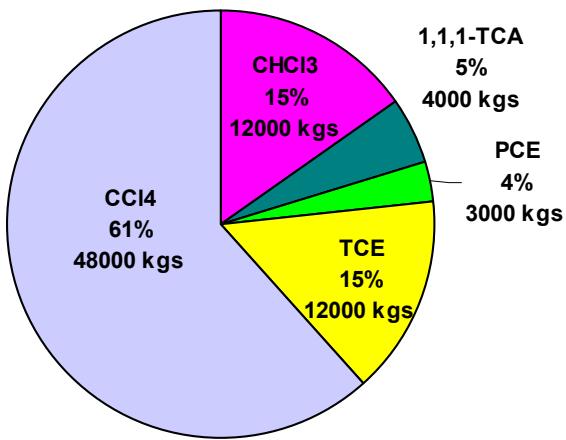


Figure C-4. Ratio of analyte mass contribution to total volatile organic compound mass removed during the mid-year 2004 reporting period.

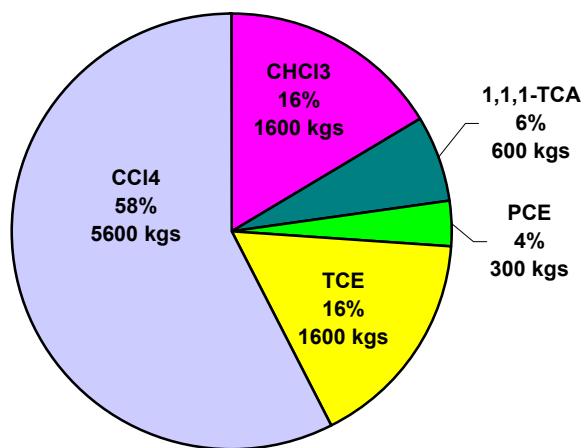


Figure C-5. Ratio of analyte mass contribution to total volatile organic compound mass removed from 1996 through June 2004.

Appendix D

Spatial and Temporal Distribution of Volatile Organic Compounds in the Vadose Zone

Appendix D

Spatial and Temporal Distribution of Volatile Organic Compounds in the Vadose Zone

Figures D-1 through D-6 represent a horizontal cross section of the distribution of the CCl₄ concentration in the SDA at approximately 21 m (70 ft) below ground surface. Concentration values from six different sampling events were used to prepare the plots before starting the remedial action in January 1996, January 1998, January 2000, January 2002, January 2004, and at the end of the reporting period June 2004. The CCl₄ concentration distribution was kriged^a using the Environmental Visualization System software program.

a. Kriging is a method of linear regression that takes into account the spatial relationship of a series of points. In this case, concentrations are estimated between actual measured data points, providing insight into what the actual concentration profile might look like at any horizontal level in the contamination zone.

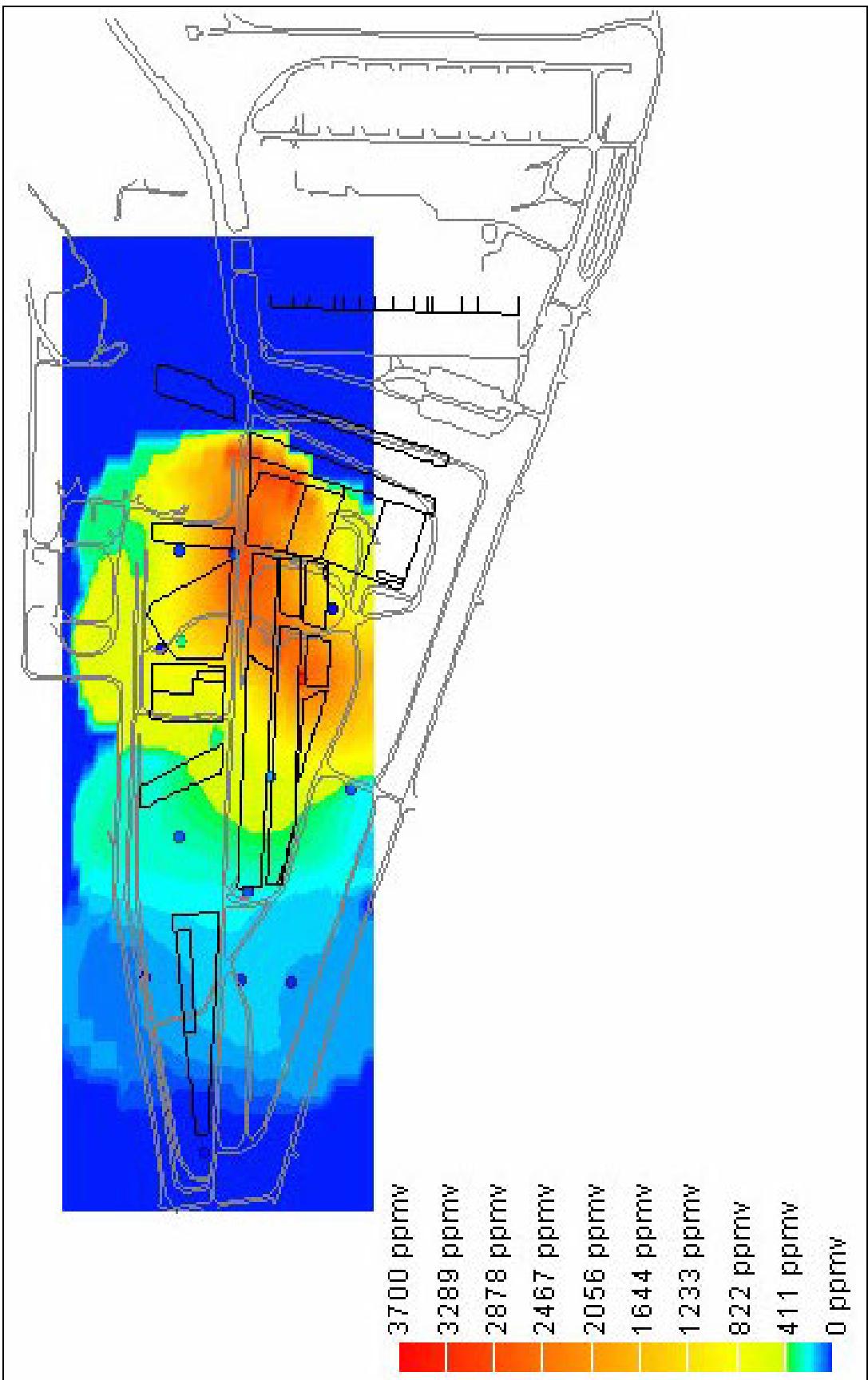


Figure D-1. Spatial distribution of carbon tetrachloride in the Subsurface Disposal Area at approximately 21 m (70 ft) below ground surface in January 1996.

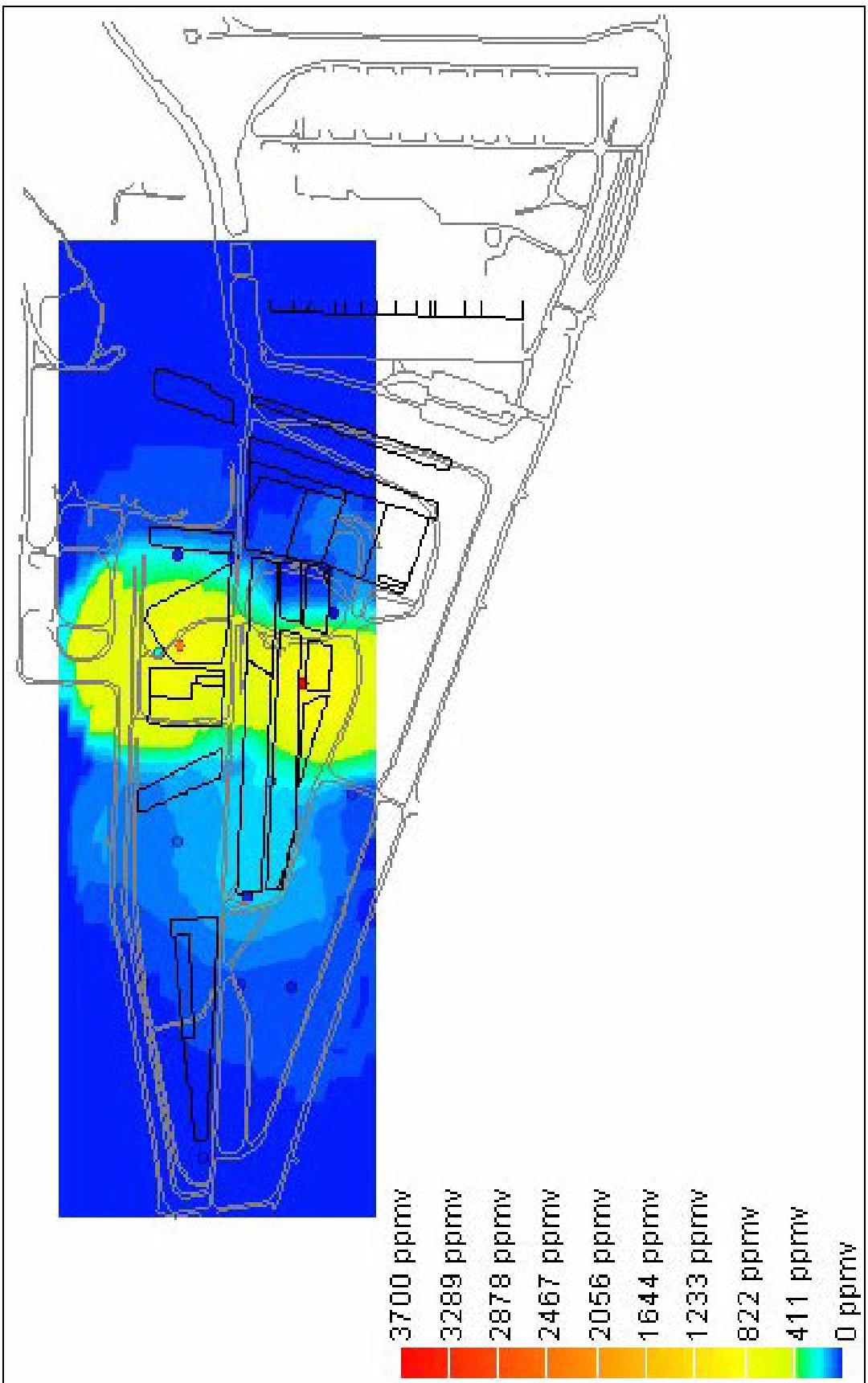
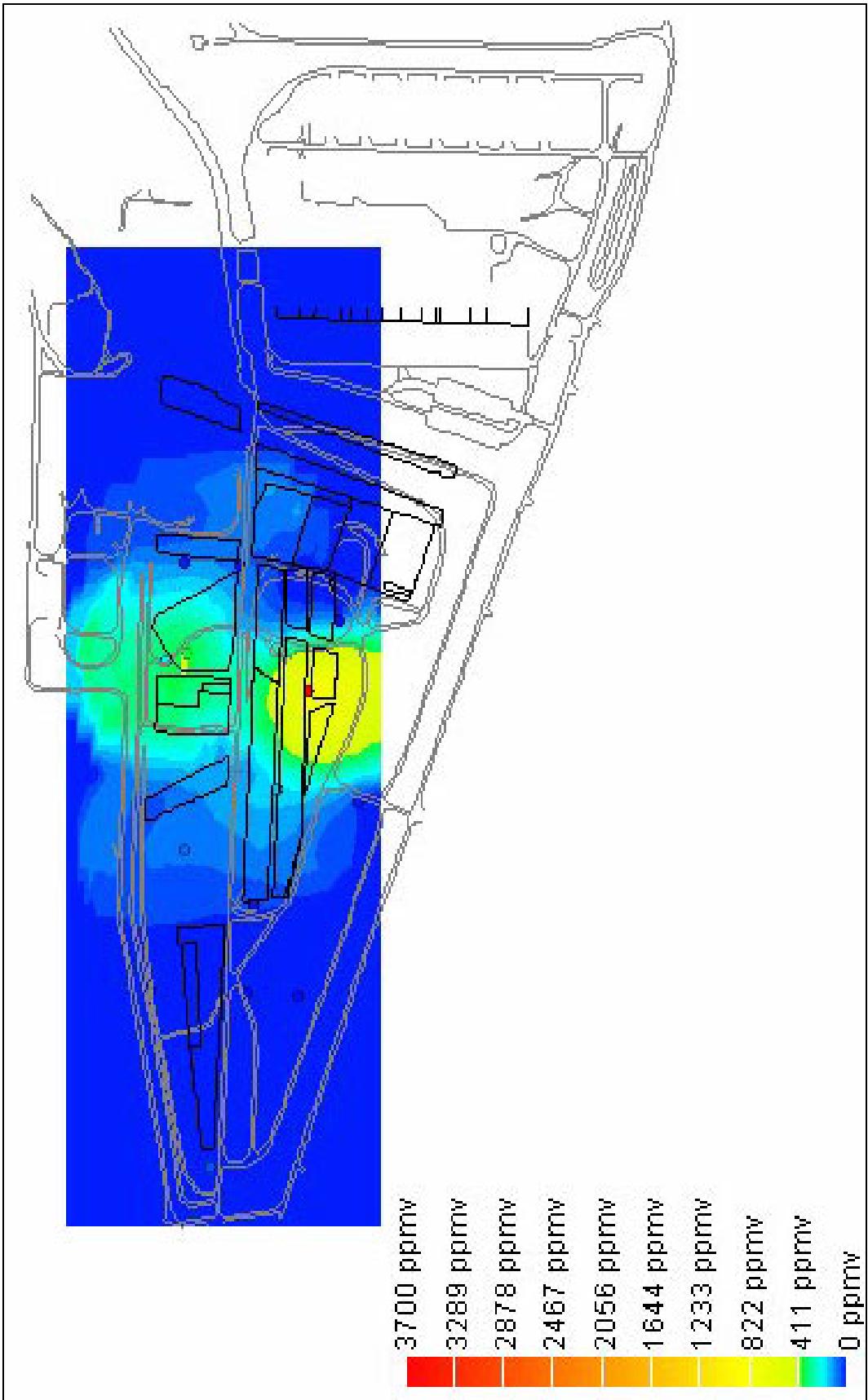


Figure D-2. Spatial distribution of carbon tetrachloride in the Subsurface Disposal Area at approximately 21 m (70 ft) below ground surface in January 1998.



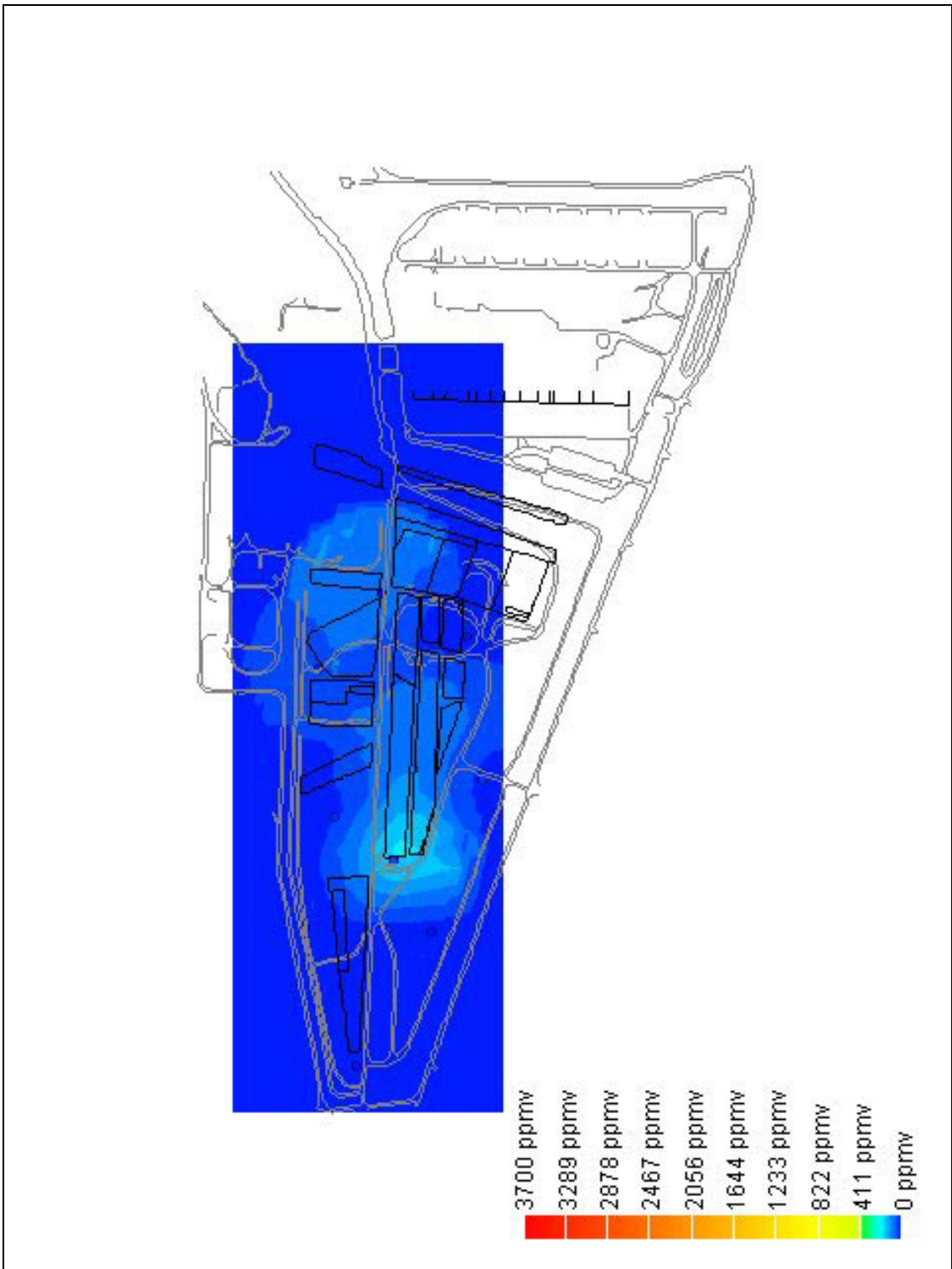


Figure D-4. Spatial distribution of carbon tetrachloride in the Subsurface Disposal Area at approximately 21 m (70 ft) below ground surface in January 2002.

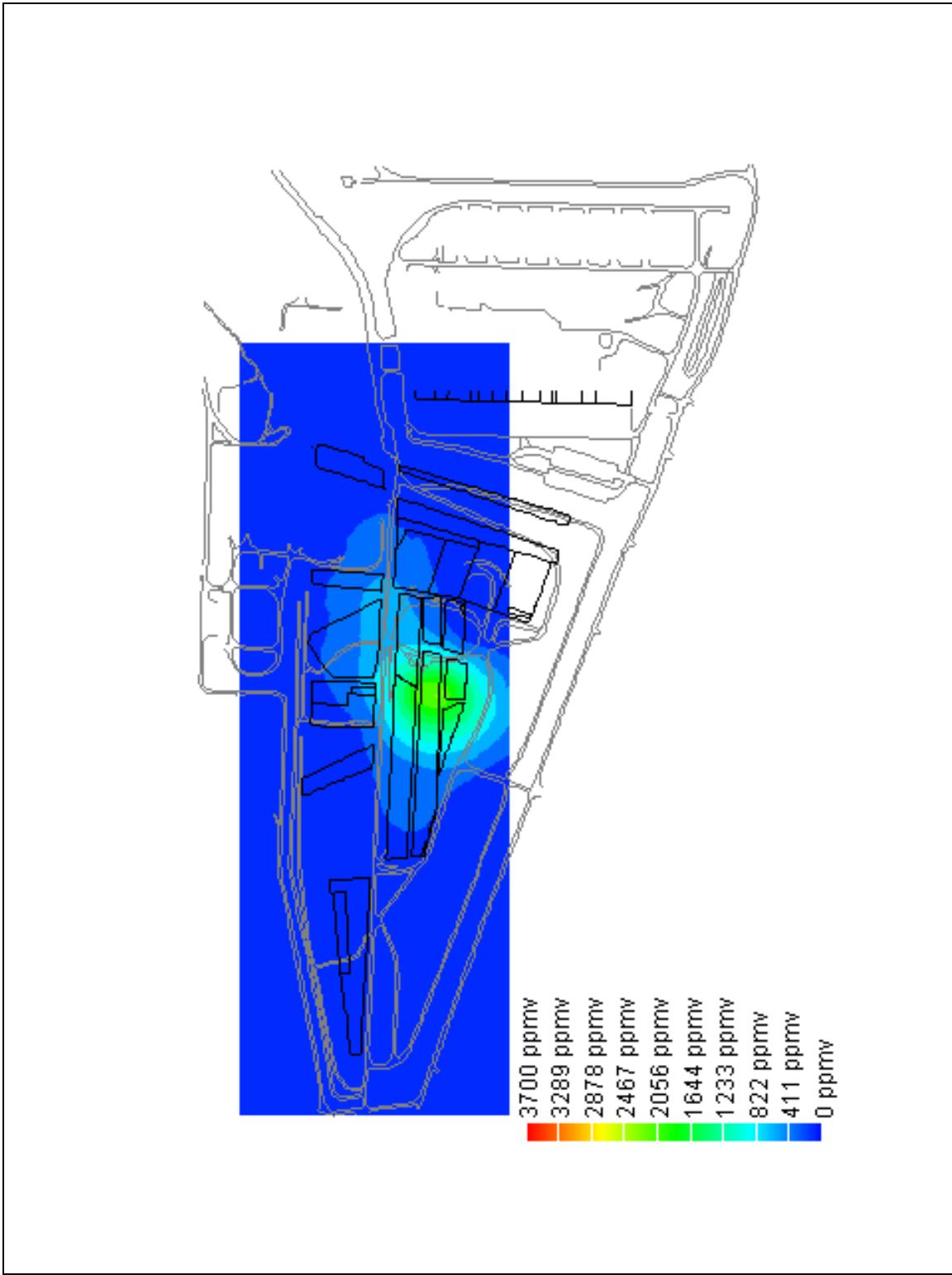


Figure D-5. Spatial distribution of carbon tetrachloride in the Subsurface Disposal Area at approximately 21 m (70 ft) below ground surface in January 2004.

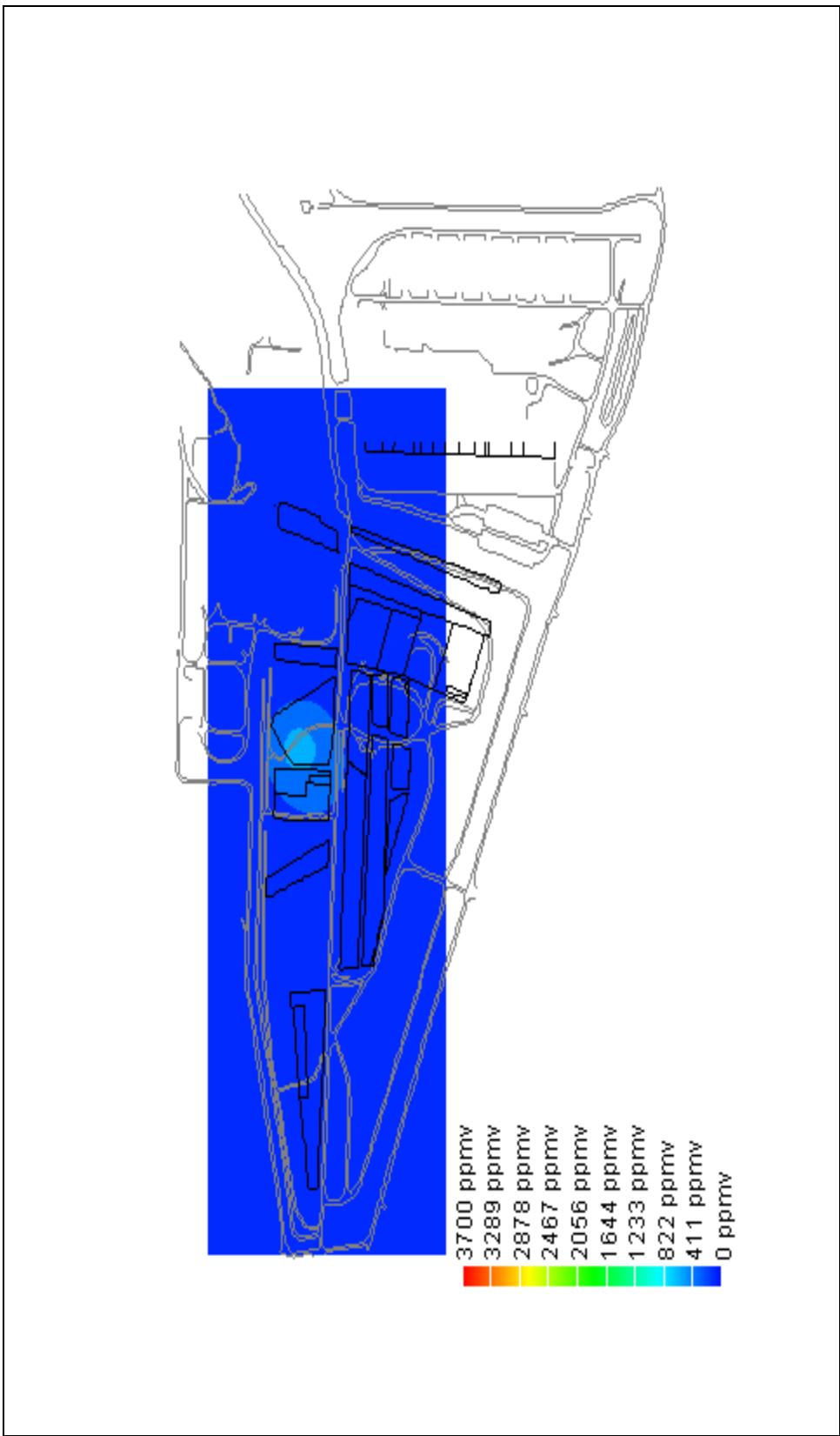


Figure D-6. Spatial distribution of carbon tetrachloride in the Subsurface Disposal Area at approximately 21 m (70 ft) below ground surface in June 2004.

Appendix E

Operations History of Vacuum Vapor Extraction with Treatment Units at the Subsurface Disposal Area

Appendix E

Operations History of Vacuum Vapor Extraction with Treatment Units at the Subsurface Disposal Area

During the mid-year 2004 operations period, a goal of 80% uptime of available hours was set for operation of the VVET units at the SDA. Units D, E, and F achieved uptimes of 100, 98, and 94% of available hours, respectively. Figures E-1, E-2, and E-3 show the operation histories of the VVET units during the mid-year 2004 operational period. Table E-1 shows the cumulative operating hours for VVET operations from January 1996 through June 2004.

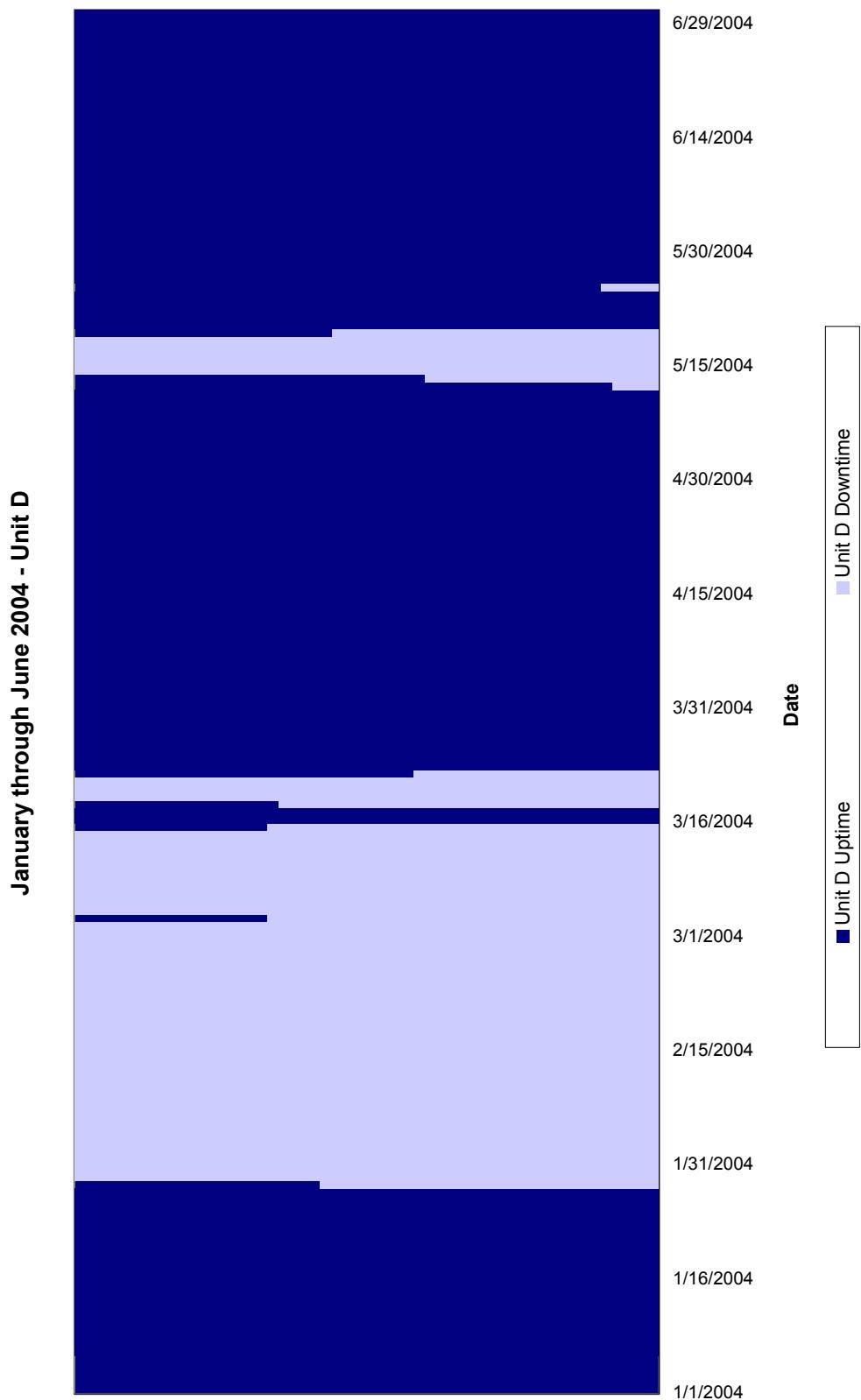


Figure E-1. Operation history of vapor vacuum extraction with treatment Unit D for mid-year 2004.

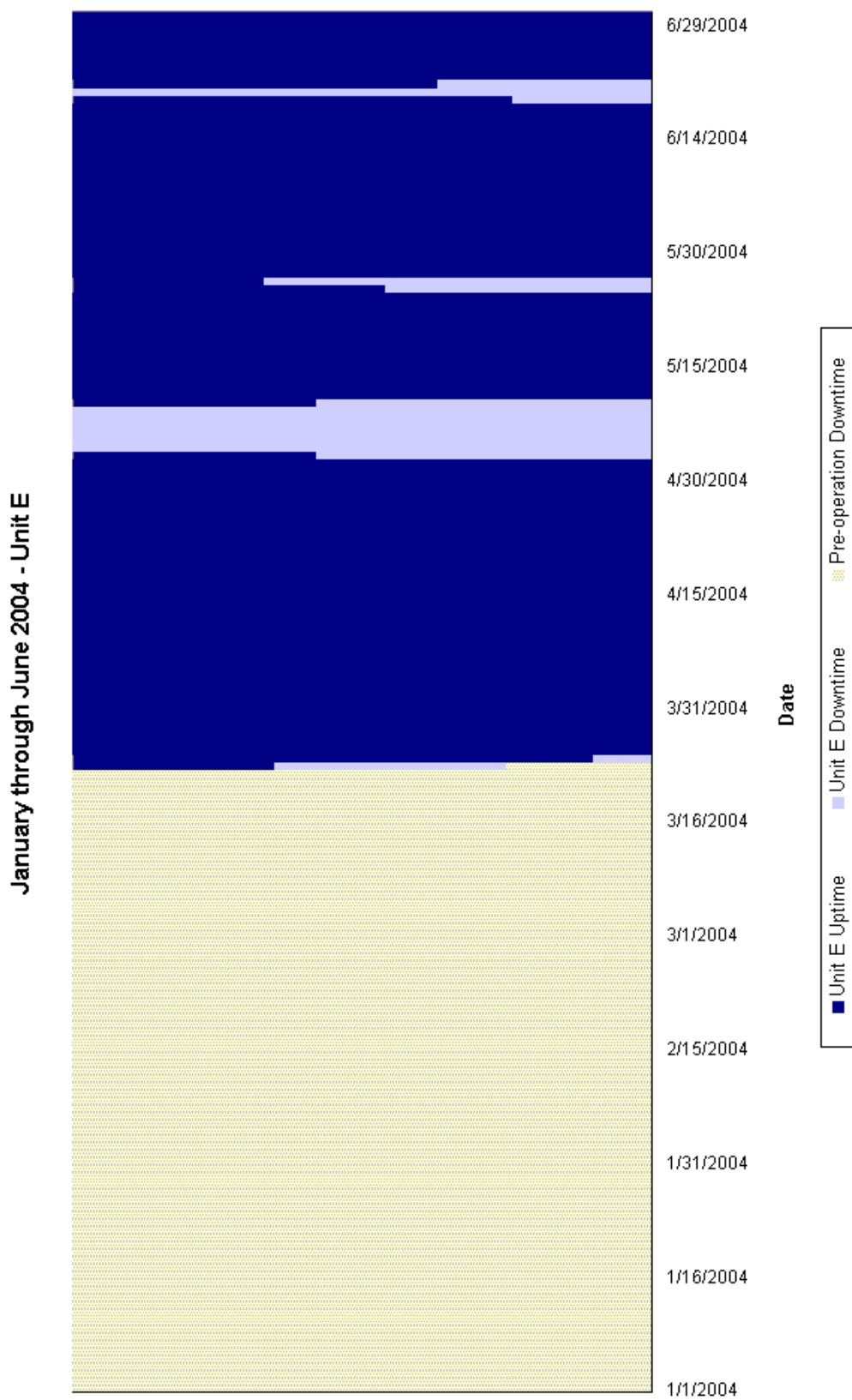


Figure E-2. Operation history of vapor vacuum extraction with treatment Unit E for mid-year 2004.

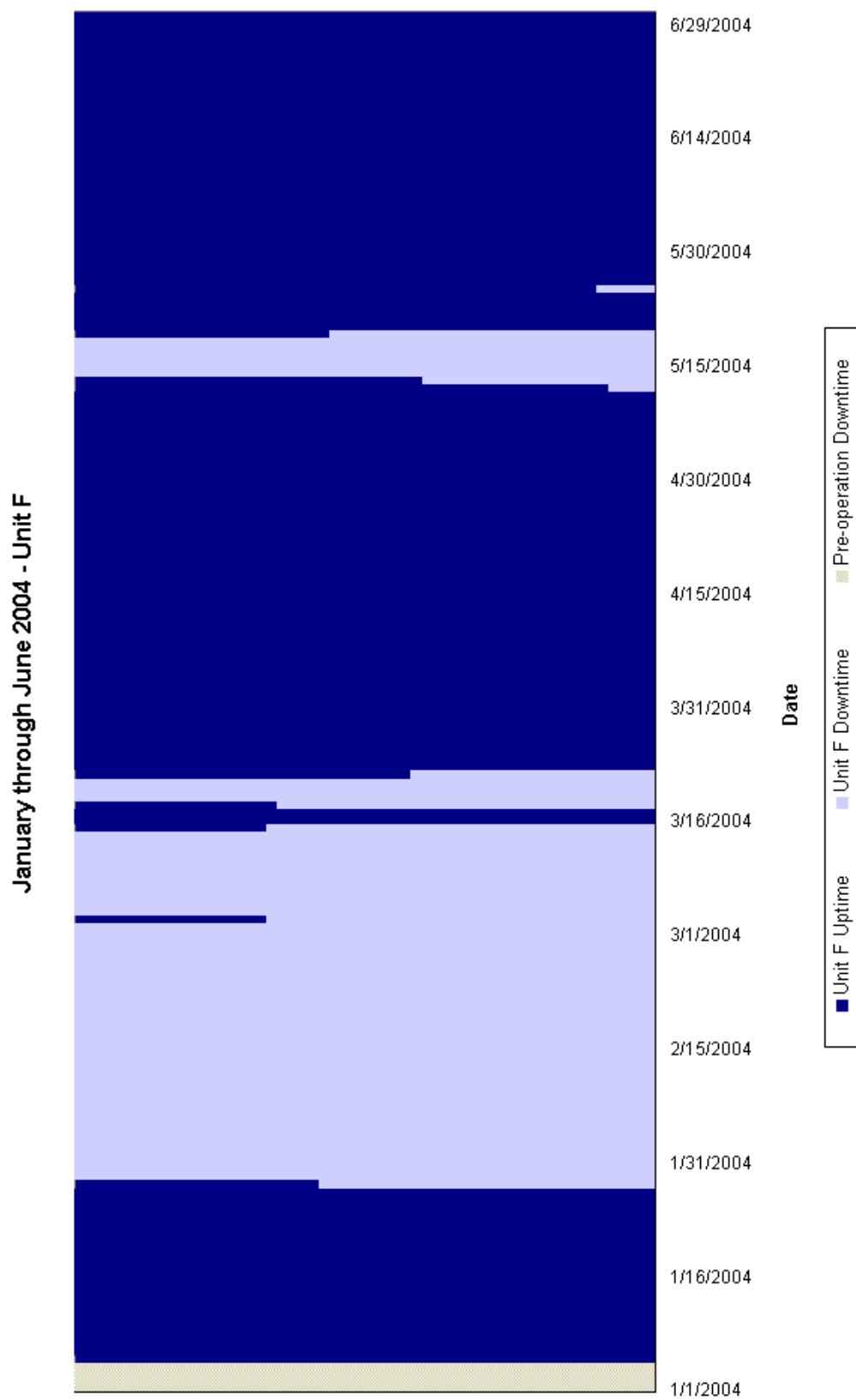


Figure E-3. Operation history of vapor vacuum extraction with treatment Unit F for mid-year 2004.

Table E-1. Cumulative operating schedule for vapor vacuum extraction with treatment operations through June 2004.

Operating Period	Unit A	Unit B	Unit C	Unit D	Unit E	Unit F
1996						
Hours Operated	3,323	3,119	2,465	N/A	N/A	N/A
Calendar Hours	8,489	7,647	8,169	N/A	N/A	N/A
Percent Operated	39%	41%	30%	--	--	--
1997						
Hours Operated	4,562	4,595	2,511	N/A	N/A	N/A
Calendar Hours	8,760	8,760	8,760	N/A	N/A	N/A
Percent Operated	52%	52%	29%	--	--	--
1998						
Hours Operated	6,587	6,247	N/A	N/A	N/A	N/A
Calendar Hours	8,760	8,760	8,760	N/A	N/A	N/A
Percent Operated	75%	71%	--	--	--	--
1999						
Hours Operated	6,197	2,732	2,276	N/A	N/A	N/A
Calendar Hours	8,760	8,760	8,760	N/A	N/A	N/A
Percent Operated	71%	31%	26%	--	--	--
2000						
Hours Operated	6,047	3,284	1,995	N/A	N/A	N/A
Calendar Hours	8,760	8,760	3,609.2	N/A	N/A	N/A
Percent Operated	69%	37%	55%	--	--	--

Table E-1. (continued.)

Operating Period	Unit A	Unit B	Unit C	Unit D	Unit E	Unit F
2001						
Hours Operated	5,489	4,335	N/A	N/A	N/A	Unit C replaced with Unit D in spring 2001
Calendar Hours	8,760	8,760	N/A	N/A	N/A	Unit D shakedown period
Percent Operated	63%	49%	--	--	--	--
2002						
Hours Operated	6,786	10,758	N/A	5,893	N/A	Unit D shakedown completed 3/4/02
Calendar Hours	8,760	8,760	N/A	7,248	N/A	N/A
Percent Operated	77%	123%	--	81%	--	--
2003						
Hours Operated	5,518	710	N/A	6,624	N/A	Unit A shutdown in February 2003
Calendar Hours	6,417	1,018.2	N/A	8,760	N/A	Unit B shutdown in September 2003
Percent Operated	86%	70%	--	76%	--	--
January through June 2004						
Hours Operated	N/A	N/A	N/A	3,904	1,816	2,324
Calendar Hours	N/A	N/A	N/A	4,368	2,064	2,576
Percent Operated	--	--	--	89%	88%	90%
Totals						
Hours Operated	44,509	35,780	9,247	16,421	1,816	2,324
Calendar Hours	67,466	61,225.2	38,058.2	20,376	2,064	2,576
Percent Operated	66%	58%	24%	81%	88%	90%

Appendix F

Well-Port Monitoring Data and Carbon Tetrachloride Concentration Graphs through June 2004

Appendix F

Well-Port Monitoring Data and Carbon Tetrachloride Concentration Graphs through June 2004

Appendix F is a presentation in tabular form of VOC concentrations for each well port from January through June 2004, and in graphical form of all samples taken over the history of well monitoring at RWMC. The tables provide data for each VOC monitored, while the graphs provide trending for carbon tetrachloride only.

Table F-1. Monitoring data for Well 1E-1 from January through June 2004.

Well Port 1E-1	Inside Fence Y	Frequency M	Depth 60.5 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/12/04 9:11 AM	1/13/04 9:09 AM	8.87E+00	4.12E+00	1.29E+00	7.92E+00	3.22E+01	4.14E+03
2/4/04 8:00 AM	2/4/04 10:24 AM	2.14E+00	1.69E+00	2.80E+00	2.66E+00	4.05E+00	8.18E+03
3/4/04 9:21 AM	3/4/04 1:36 PM	3.00E+00	2.05E+00	4.94E-01	2.10E+00	5.94E+00	8.57E+03
5/5/04 8:20 AM	5/5/04 10:43 AM	4.82E+00	3.02E+00	1.35E+00	5.53E+00	1.37E+01	1.38E+04
5/5/04 8:20 AM	5/5/04 10:46 AM	4.94E+00	3.12E+00	1.40E+00	5.48E+00	1.37E+01	1.37E+04

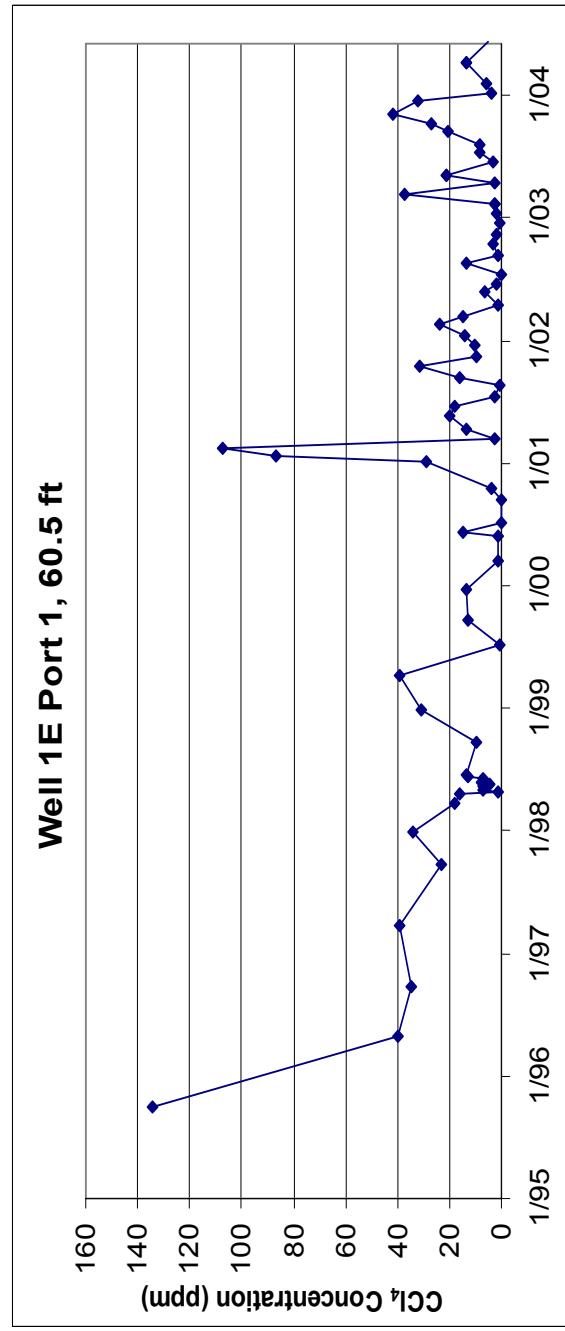


Figure 1. Carbon tetrachloride concentrations (ppm) for Well Port 1E-1.

Table F-2. Monitoring data for Well 2E-0 from January through June 2004.

Well Port 2E-0	Inside Fence Y	Frequency M	Depth 0 ft

No sample taken for this reporting period.

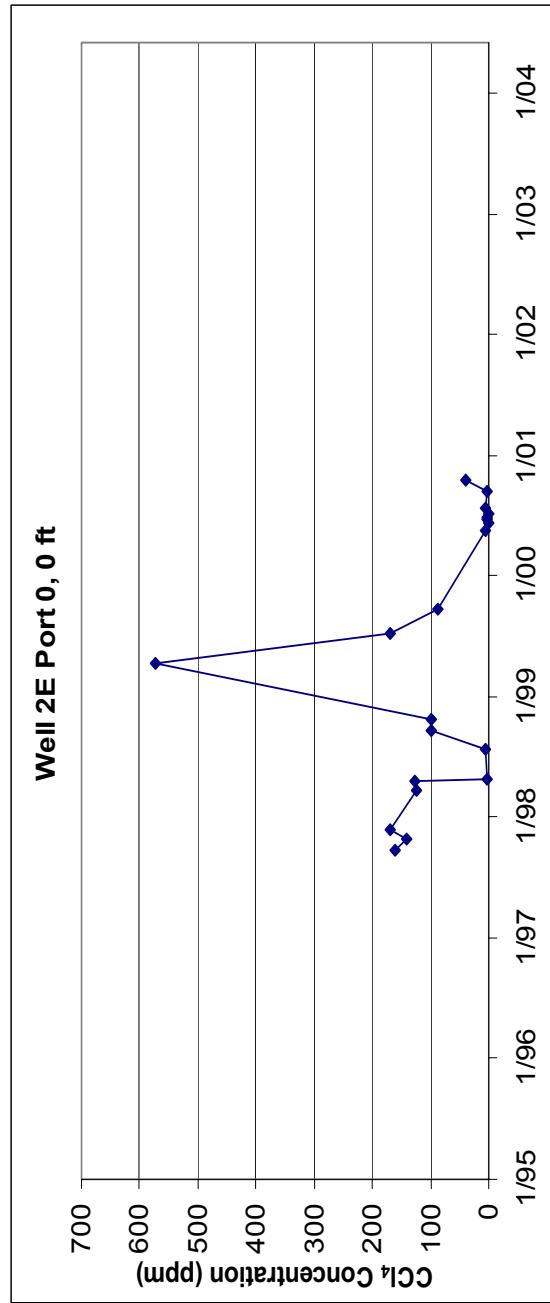


Figure 2. Carbon tetrachloride concentrations (ppmv) for Well Port 2E-0.

Table F-3. Monitoring data for Well 2E-1 from January through June 2004.

Well Port 2E-1	Inside Fence Y	Frequency M	Depth 87.5 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/12/04 9:36 AM	1/13/04 8:39 AM	3.30E+02	1.11E+02	1.81E+01	1.24E+02	9.22E+02	4.55E+03
2/3/04 8:36 AM	2/3/04 12:17 PM	3.62E+02	1.27E+02	2.63E+01	1.58E+02	1.03E+03	1.17E+04
3/1/04 8:15 AM	3/2/04 10:35 AM	8.75E+02	3.70E+02	6.71E+01	2.13E+02	3.11E+03	9.07E+03
4/8/04 11:40 AM	4/8/04 1:42 PM	2.19E+01	5.78E+00	1.22E+00	7.86E+00	2.39E+01	1.83E+04
5/5/04 8:15 AM	5/5/04 11:14 AM	2.05E+01	5.46E+00	5.26E-01	5.86E+00	2.21E+01	1.07E+04
6/7/04 11:00 AM	6/8/04 11:51 AM	1.21E+01	5.92E+00	2.94E+00	7.09E+00	1.87E+01	1.36E+04

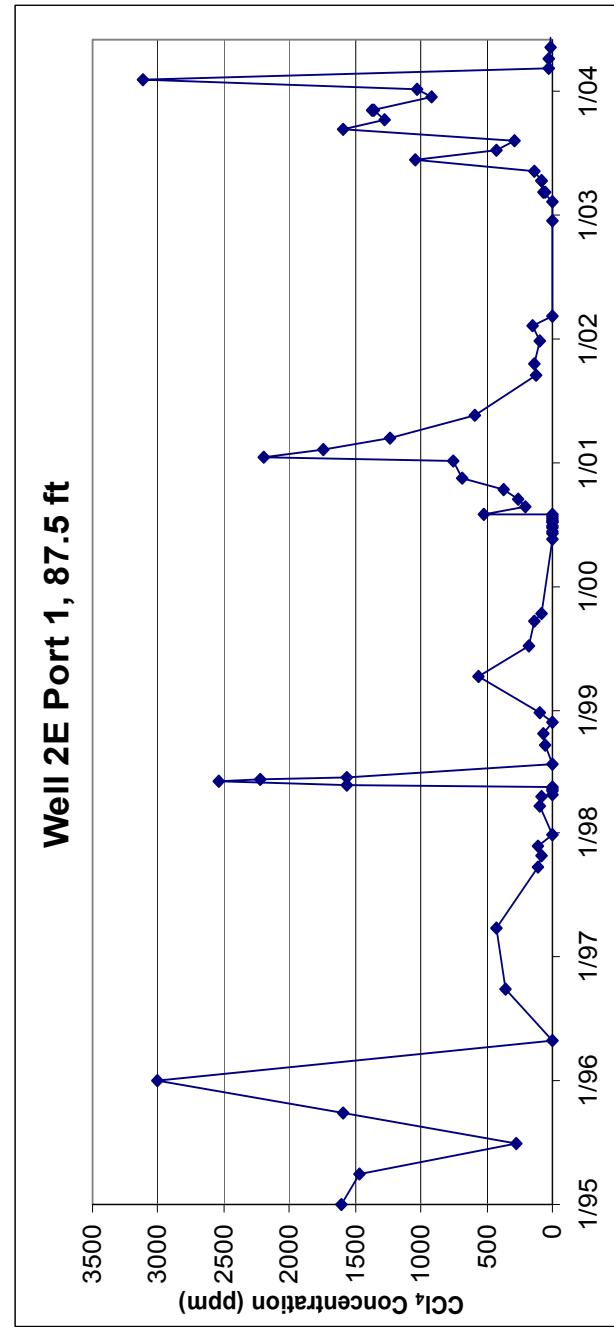


Figure 3. Carbon tetrachloride concentrations (ppmv) for Well Port 2E-1.

Table F-4. Monitoring data for Well 2E-2 from January through June 2004.

Well Port 2E-2	Inside Fence Y	Frequency M	Depth 52.5 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/12/04 9:37 AM	1/13/04 8:45 AM	7.96E+01	2.98E+01	5.64E+00	5.98E+01	2.77E+02	4.41E+03
3/1/04 8:16 AM	3/2/04 10:41 AM	1.71E+02	6.80E+01	9.31E+00	1.25E+02	6.54E+02	8.75E+03
4/8/04 11:40 AM	4/8/04 1:45 PM	3.19E+01	1.35E+01	2.34E+00	1.87E+01	7.75E+01	1.79E+04
5/5/04 7:30 AM	5/5/04 11:16 AM	2.44E+01	9.83E+00	1.34E+00	1.18E+01	4.98E+01	1.07E+04
6/7/04 11:00 AM	6/8/04 11:54 AM	1.23E+01	6.89E+00	2.76E+00	8.08E+00	2.06E+01	1.40E+04

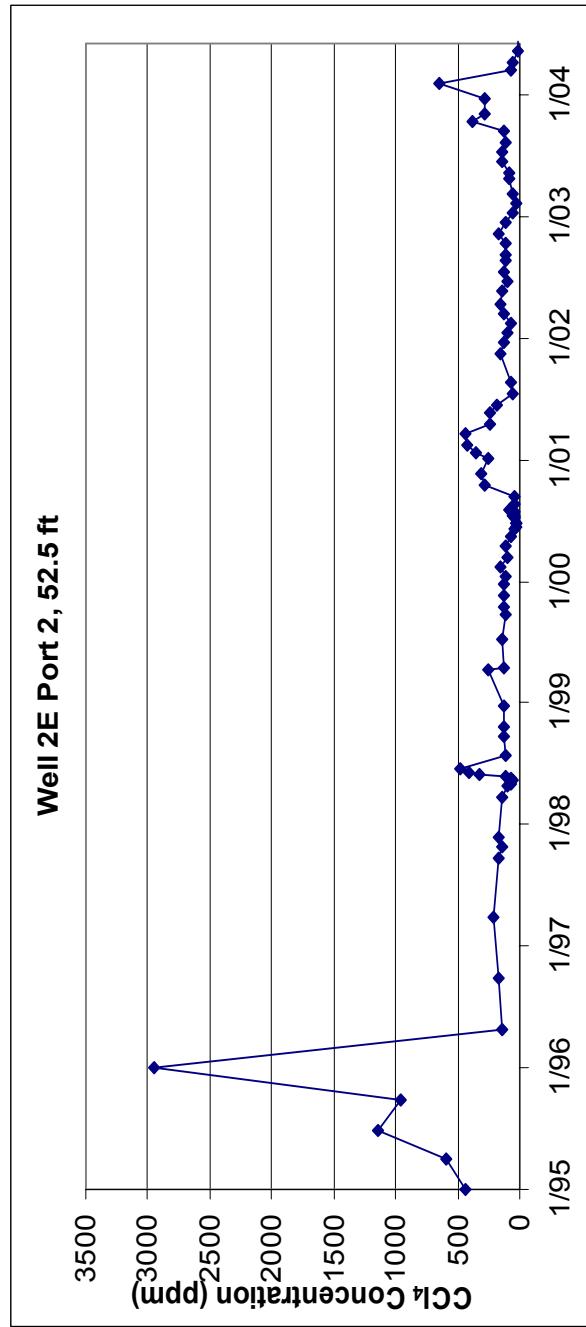


Figure 4. Carbon tetrachloride concentrations (ppm) for Well Port 2E-2.

Table F-5. Monitoring data for Well 2E-3 from January through June 2004.

Well Port 2E-3	Inside Fence Y	Frequency M	Depth 32.5 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/12/04 9:38 AM	1/13/04 8:51 AM	5.68E+01	2.09E+01	4.48E+00	4.85E+01	1.97E+02	4.20E+03
2/3/04 8:32 AM	2/3/04 12:23 PM	4.48E+01	1.71E+01	3.94E+00	3.95E+01	1.45E+02	1.08E+04
2/3/04 8:32 AM	2/3/04 12:26 PM	4.49E+01	1.72E+01	3.79E+00	4.00E+01	1.46E+02	1.09E+04
3/1/04 8:17 AM	3/2/04 10:47 AM	8.75E+01	3.28E+01	5.03E+00	9.06E+01	3.34E+02	8.58E+03
4/8/04 11:35 AM	4/8/04 1:48 PM	2.31E+01	9.80E+00	1.92E+00	1.61E+01	4.88E+01	1.86E+04
5/5/04 7:30 AM	5/5/04 11:19 AM	1.59E+01	6.36E+00	9.74E-01	9.50E+00	3.13E+01	1.10E+04
6/7/04 11:00 AM	6/8/04 11:57 AM	1.25E+01	6.42E+00	2.24E+00	7.92E+00	2.25E+01	1.38E+04
6/7/04 11:00 AM	6/8/04 12:00 PM	1.25E+01	6.35E+00	2.06E+00	7.87E+00	2.24E+01	1.39E+04

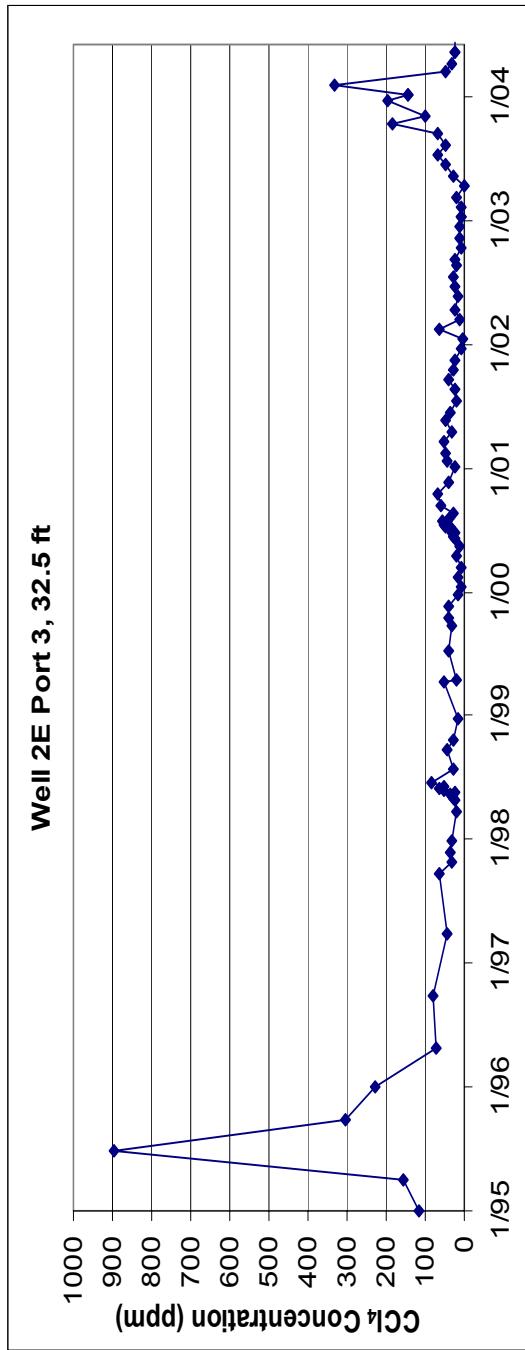


Figure 5. Carbon tetrachloride concentrations (ppmv) for Well Port 2E-3.

Table F-6. Monitoring data for Well 3E-1 from January through June 2004.

Well Port 3E-1	Inside Fence Y	Frequency M	Depth 121 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/8/04 9:51 AM	1/8/04 3:25 PM	9.07E+00	2.28E+00	9.22E-01	1.64E+01	2.81E+01	8.15E+03
2/3/04 2:02 PM	2/4/04 11:39 AM	2.58E+00	1.26E+00	7.20E-01	2.32E+00	7.05E+00	7.73E+03
3/1/04 9:53 AM	3/2/04 10:02 AM	1.01E+01	5.79E+00	1.62E+00	6.16E+00	3.67E+01	8.20E+03
4/5/04 10:12 AM	4/5/04 1:43 PM	1.94E+01	6.40E+00	2.38E+00	3.38E+01	7.88E+01	1.46E+04
5/5/04 7:56 AM	5/5/04 11:43 AM	3.94E+00	1.78E+00	6.77E-01	3.57E+00	8.67E+00	1.19E+04
6/7/04 11:20 AM	6/8/04 12:24 PM	8.72E+00	3.28E+00	1.97E+00	1.21E+01	2.22E+01	1.46E+04
6/7/04 11:20 AM	6/8/04 12:27 PM	8.84E+00	3.15E+00	1.97E+00	1.22E+01	2.25E+01	1.47E+04

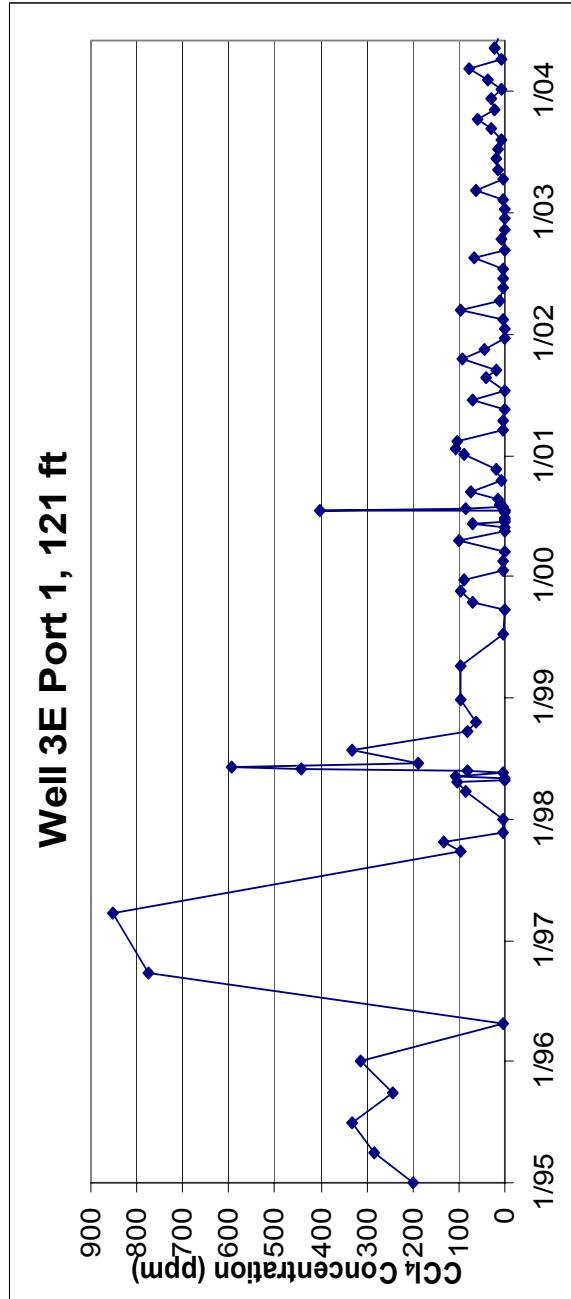


Figure 6. Carbon tetrachloride concentrations (ppmv) for Well Port 3E-1.

Table F-7. Monitoring data for Well 3E-2 from January through June 2004.

Well Port 3E-2	Inside Fence Y	Frequency M	Depth 96.5 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/8/04 9:51 AM	1/8/04 3:27 PM	6.67E+00	1.98E+00	7.62E-01	1.28E+01	2.22E+01	8.17E+03
1/8/04 9:51 AM	1/8/04 3:31 PM	7.15E+00	1.98E+00	8.65E-01	1.34E+01	2.34E+01	8.17E+03
2/3/04 2:04 PM	2/4/04 11:42 AM	4.23E+00	2.30E+00	6.97E-01	3.27E+00	1.57E+01	8.02E+03
4/5/04 10:13 AM	4/5/04 1:46 PM	1.77E+01	5.53E+00	2.11E+00	3.14E+01	7.02E+01	1.45E+04
5/5/04 7:56 AM	5/5/04 11:46 AM	6.12E+00	2.02E+00	1.14E+00	7.59E+00	1.36E+01	1.12E+04
6/7/04 11:20 AM	6/8/04 12:30 PM	8.22E+00	3.36E+00	1.57E+00	8.82E+00	2.01E+01	1.51E+04

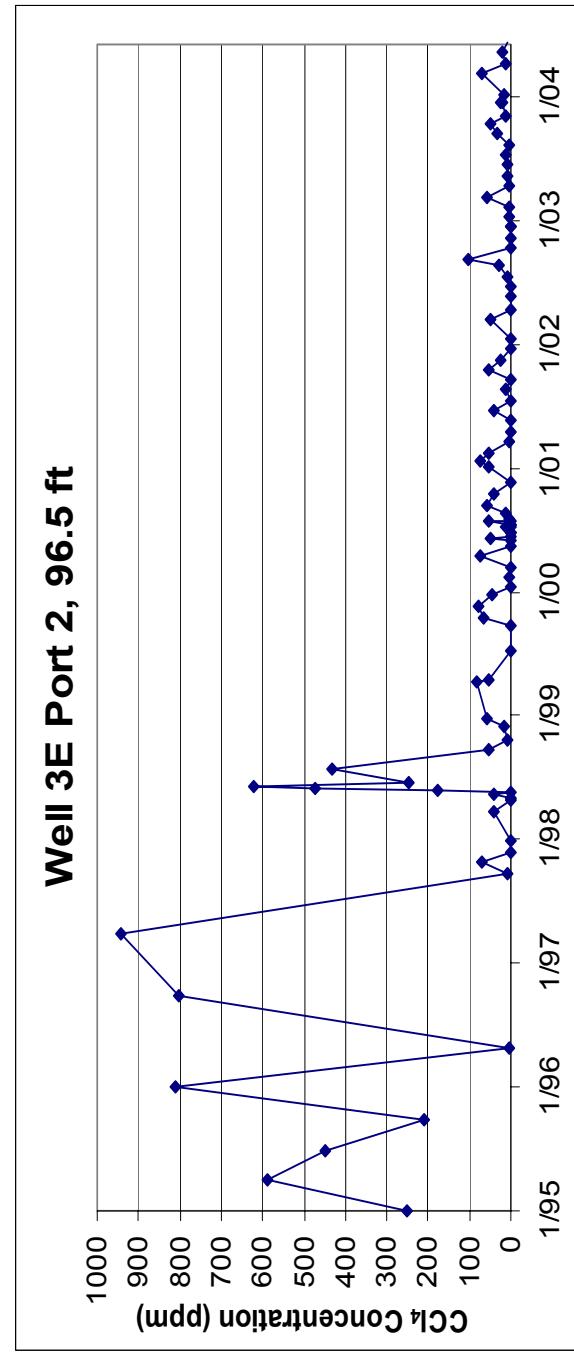


Figure 7. Carbon tetrachloride concentrations (ppmv) for Well Port 3E-2.

Table F-8. Monitoring data for Well 3E-3 from January through June 2004.

Well Port 3E-3	Inside Fence Y	Frequency M	Depth 52.5 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/8/04 9:52 AM	1/8/04 3:33 PM	5.97E+01	2.53E+01	4.37E+00	5.56E+01	2.51E+02	8.36E+03
2/3/04 2:05 PM	2/4/04 11:45 AM	5.50E+01	2.23E+01	4.61E+00	5.01E+01	2.01E+02	7.93E+03
3/1/04 9:54 AM	3/2/04 10:05 AM	2.02E+01	9.96E+00	1.87E+00	9.07E+00	6.01E+01	1.11E+04
4/5/04 10:14 AM	4/5/04 1:49 PM	5.17E+01	2.03E+01	4.21E+00	5.40E+01	1.75E+02	1.45E+04
4/5/04 10:14 AM	4/5/04 1:52 PM	5.18E+01	2.05E+01	4.19E+00	5.45E+01	1.76E+02	1.45E+04
5/5/04 7:57 AM	5/5/04 11:49 AM	2.77E+01	1.16E+01	1.95E+00	1.92E+01	6.94E+01	1.12E+04
6/7/04 11:20 AM	6/8/04 12:33 PM	2.21E+01	9.72E+00	3.25E+00	2.13E+01	4.90E+01	1.50E+04

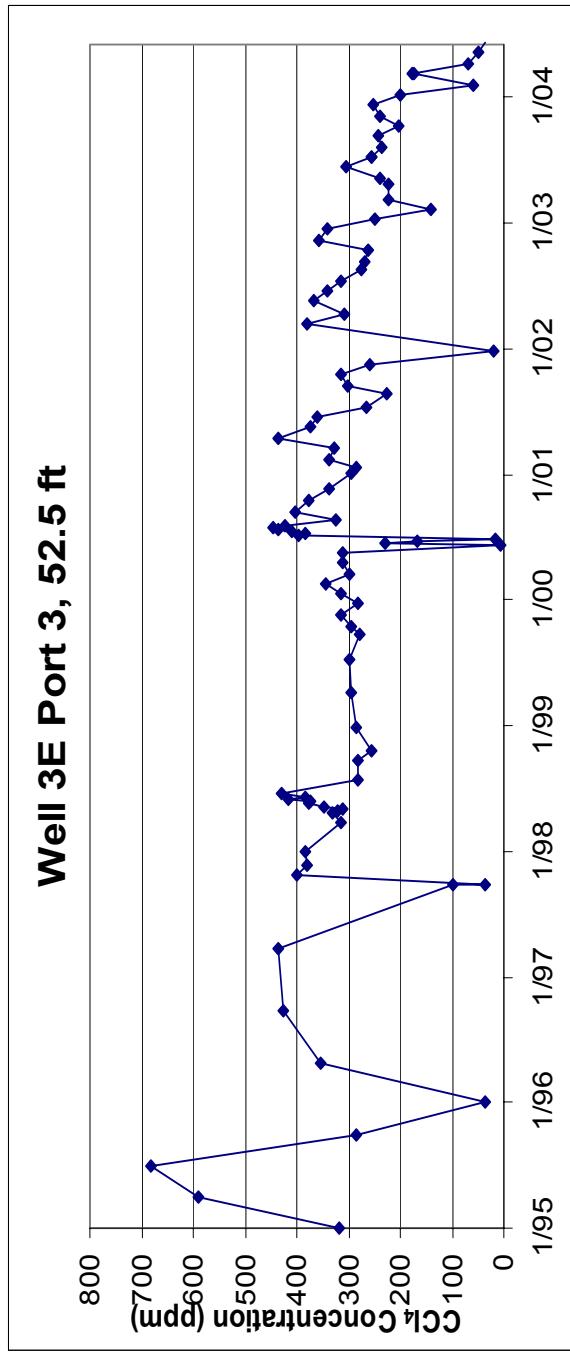


Figure 8. Carbon tetrachloride concentrations (ppmv) for Well Port 3E-3.

Table F-9. Monitoring data for Well 4E-1 from January through June 2004.

Well Port 4E-1	Inside Fence Y	Frequency M	Depth 96.5 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/12/04 8:58 AM	1/13/04 9:48 AM	8.34E+00	5.49E+00	1.08E+00	6.23E+00	4.76E+01	5.30E+03
1/12/04 8:58 AM	1/13/04 9:51 AM	1.09E+01	6.75E+00	1.23E+00	1.06E+01	6.33E+01	4.27E+03
2/3/04 3:16 PM	2/4/04 10:48 AM	1.57E+01	1.03E+01	3.36E+00	1.76E+01	9.34E+01	8.00E+03
2/3/04 3:16 PM	2/4/04 10:51 AM	1.77E+01	1.21E+01	3.67E+00	1.84E+01	1.14E+02	7.91E+03
3/1/04 11:38 AM	3/2/04 9:50 AM	1.75E+01	1.16E+01	3.52E+00	1.48E+01	9.41E+01	8.39E+03
3/1/04 11:38 AM	3/2/04 9:53 AM	1.94E+01	1.30E+01	3.49E+00	1.83E+01	1.22E+02	8.45E+03
4/6/04 12:12 PM	4/7/04 8:43 AM	1.54E+01	1.01E+01	2.54E+00	1.41E+01	9.34E+01	1.52E+04
4/6/04 12:12 PM	4/7/04 8:46 AM	1.39E+01	8.74E+00	2.37E+00	1.33E+01	7.88E+01	1.52E+04

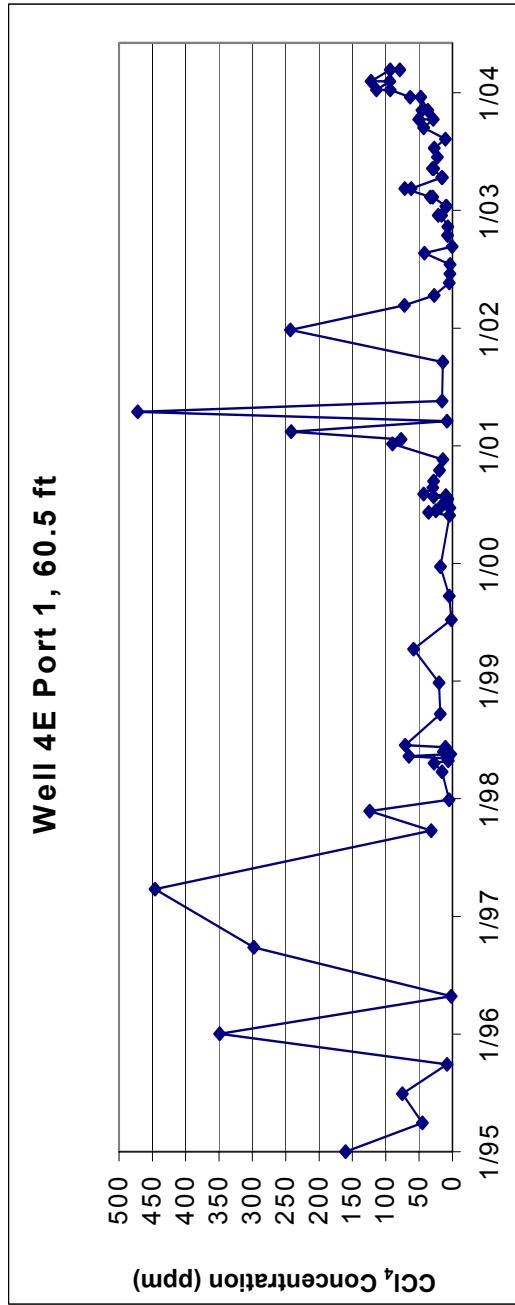


Figure 9. Carbon tetrachloride concentrations (ppmv) for Well Port 4E-1.

Table F-10. Monitoring data for Well 4E-2 from January through June 2004.

Well Port 4E-2	Inside Fence Y	Frequency M	Depth 62.5 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/12/04 8:59 AM	1/13/04 9:54 AM	1.11E+02	4.31E+01	6.82E+00	6.17E+01	3.92E+02	4.13E+03
2/3/04 3:17 PM	2/4/04 10:54 AM	1.08E+02	4.13E+01	8.49E+00	7.28E+01	4.08E+02	7.90E+03
3/1/04 11:42 AM	3/2/04 9:56 AM	2.03E+01	6.59E+00	2.42E+00	1.45E+01	5.69E+01	8.25E+03
3/1/04 11:42 AM	3/2/04 9:59 AM	2.02E+01	6.60E+00	2.30E+00	1.45E+01	5.61E+01	8.25E+03
4/6/04 12:13 PM	4/7/04 8:49 AM	5.86E+01	1.92E+01	4.14E+00	4.10E+01	1.58E+02	1.53E+04

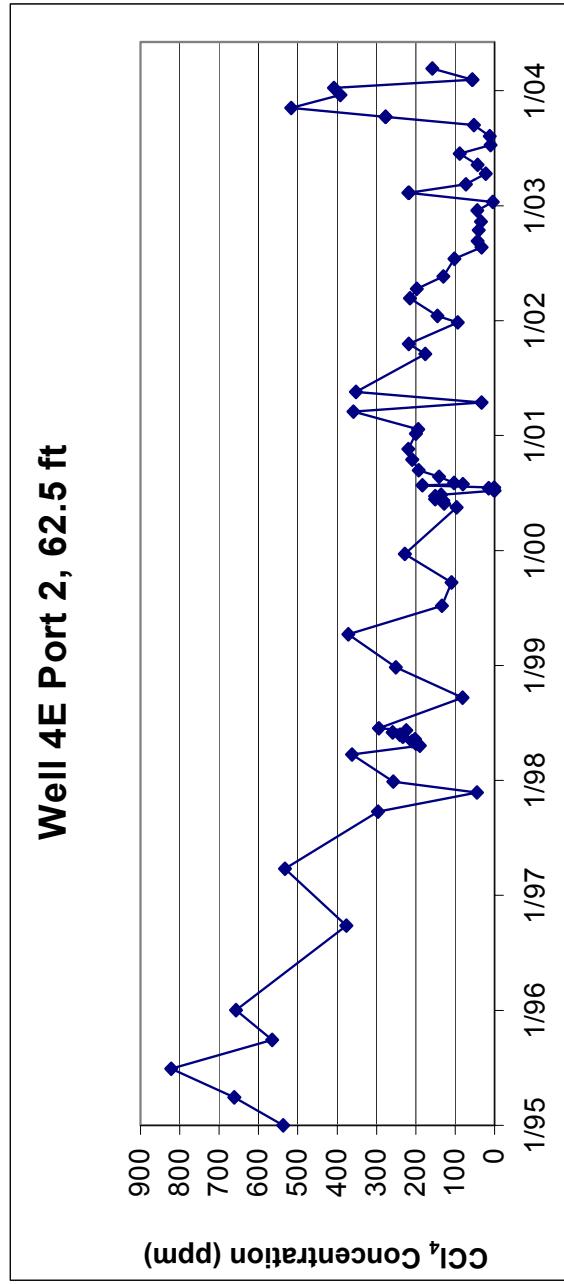


Figure 10. Carbon tetrachloride concentrations (ppmv) for Well Port 4E-2.

Table F-11. Monitoring data for Well 5E-1 from January through June 2004.

Well Port 5E-1	Inside Fence Y	Frequency M	Depth 72.5 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/8/04 9:29 AM	1/8/04 2:28 PM	2.95E+01	9.32E+00	2.82E+00	4.16E+01	7.59E+01	8.67E+03
2/3/04 4:10 PM	2/4/04 1:30 PM	1.41E+01	5.21E+00	1.49E+00	2.28E+01	4.66E+01	8.98E+03
3/1/04 10:50 AM	3/1/04 3:49 PM	1.10E+01	5.57E+00	1.80E+00	1.66E+01	3.45E+01	1.04E+04
4/6/04 9:12 AM	4/7/04 11:42 AM	4.01E+00	2.69E+00	7.54E-01	3.13E+00	7.09E+00	1.59E+04
5/4/04 7:58 AM	5/4/04 12:33 PM	5.57E+00	4.82E+00	1.77E+00	4.72E+00	9.27E+00	1.38E+04
6/9/04 12:00 PM	6/10/04 3:51 PM	5.54E+00	4.75E+00	1.97E+00	3.81E+00	7.27E+00	1.70E+04

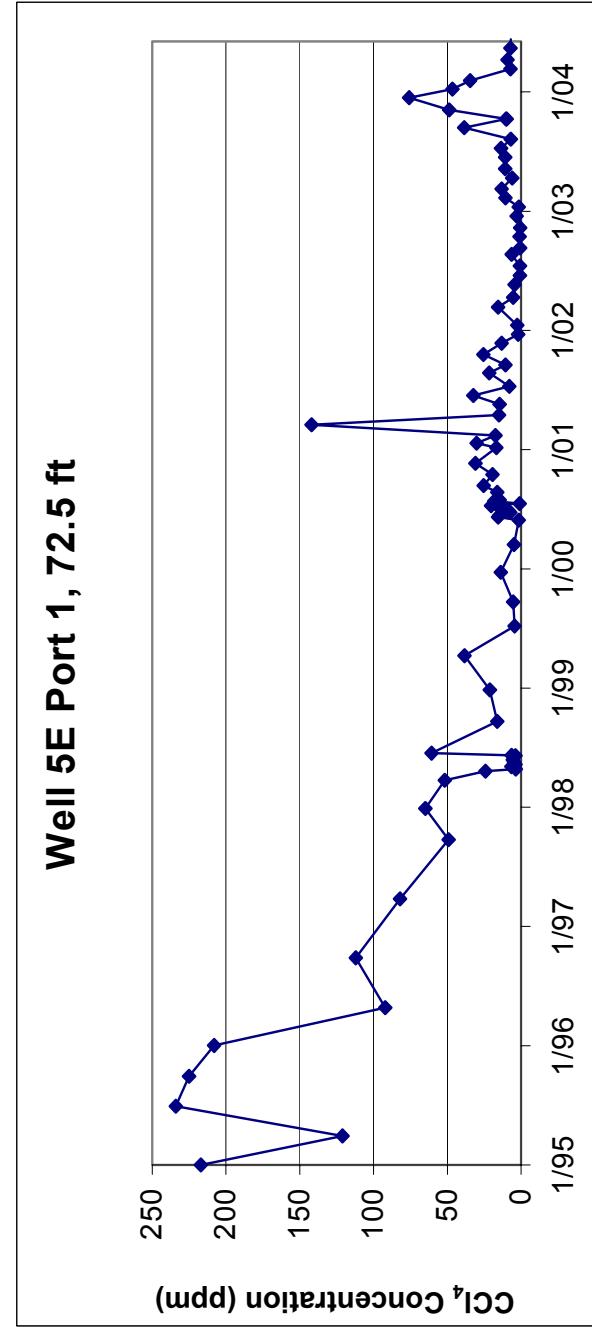


Figure 11. Carbon tetrachloride concentrations (ppmv) for Well Port 5E-1.

Table F-12. Monitoring data for Well 5E-2 from January through June 2004.

Well Port 5E-2	Inside Fence Y	Frequency M	Depth 49.5 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/8/04 9:29 AM	1/8/04 2:31 PM	2.42E+01	1.01E+01	3.54E+00	3.46E+01	5.54E+01	8.56E+03
2/3/04 4:10 PM	2/4/04 1:33 PM	1.85E+01	1.05E+01	3.58E+00	2.19E+01	3.95E+01	9.01E+03
3/1/04 10:53 AM	3/1/04 3:55 PM	1.26E+01	8.37E+00	2.99E+00	1.53E+01	2.61E+01	1.00E+04
4/6/04 9:13 AM	4/7/04 11:46 AM	8.03E+00	6.43E+00	1.92E+00	4.98E+00	8.55E+00	1.63E+04
5/4/04 7:58 AM	5/4/04 12:39 PM	7.41E+00	6.45E+00	2.42E+00	5.14E+00	8.01E+00	1.39E+04
6/9/04 12:00 PM	6/10/04 3:54 PM	7.53E+00	6.54E+00	2.49E+00	4.28E+00	6.88E+00	1.72E+04

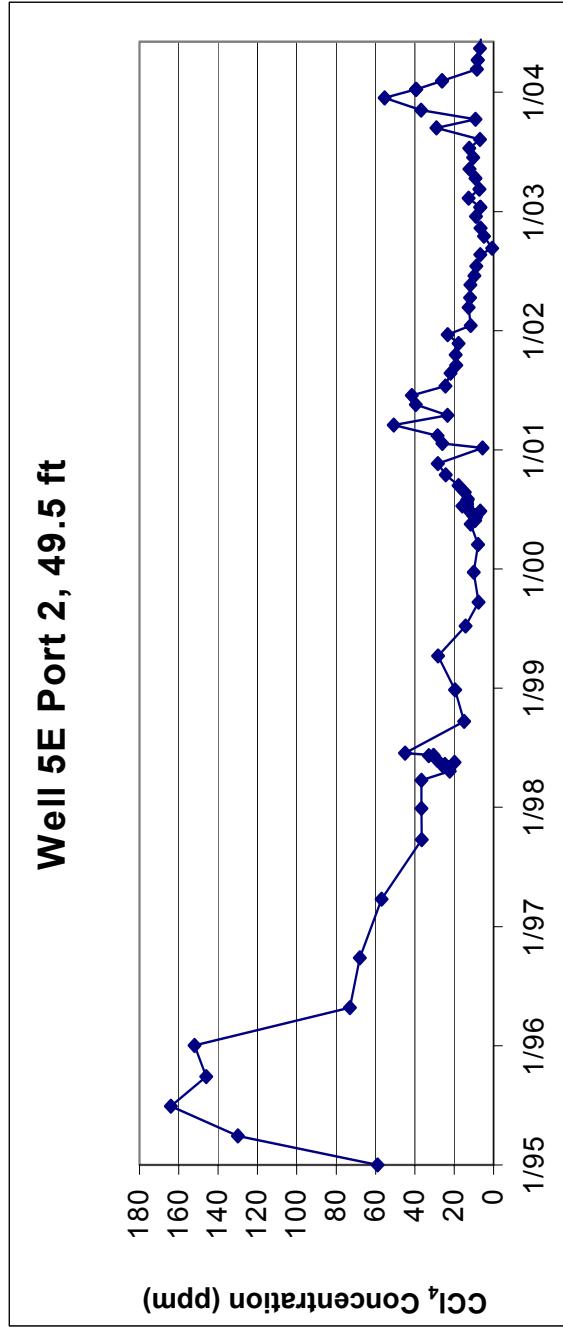


Figure 12. Carbon tetrachloride concentrations (ppmv) for Well Port 5E-2.

Table F-13. Monitoring data for Well 1V-1 from January through June 2004.

Well Port 1V-1	Inside Fence Y	Frequency M	Depth 69 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/12/04 9:14 AM	1/13/04 9:03 AM	7.90E+00	5.39E+00	1.49E+00	8.08E+00	3.04E+01	4.19E+03
2/4/04 12:00 PM	2/4/04 10:18 AM	7.69E+00	6.30E+00	5.56E+00	1.02E+01	2.73E+01	7.78E+03
3/4/04 9:17 AM	3/4/04 1:39 PM	5.21E+00	3.89E+00	5.87E-01	3.09E+00	1.21E+01	8.53E+03
3/4/04 9:17 AM	3/4/04 1:42 PM	5.27E+00	3.83E+00	6.51E-01	3.14E+00	1.22E+01	8.53E+03
5/5/04 8:20 AM	5/5/04 10:37 AM	6.48E+00	4.39E+00	1.97E+00	6.92E+00	1.74E+01	1.42E+04
6/7/04 11:10 AM	6/8/04 12:03 PM	6.33E+00	3.73E+00	1.95E+00	4.53E+00	9.05E+00	1.37E+04

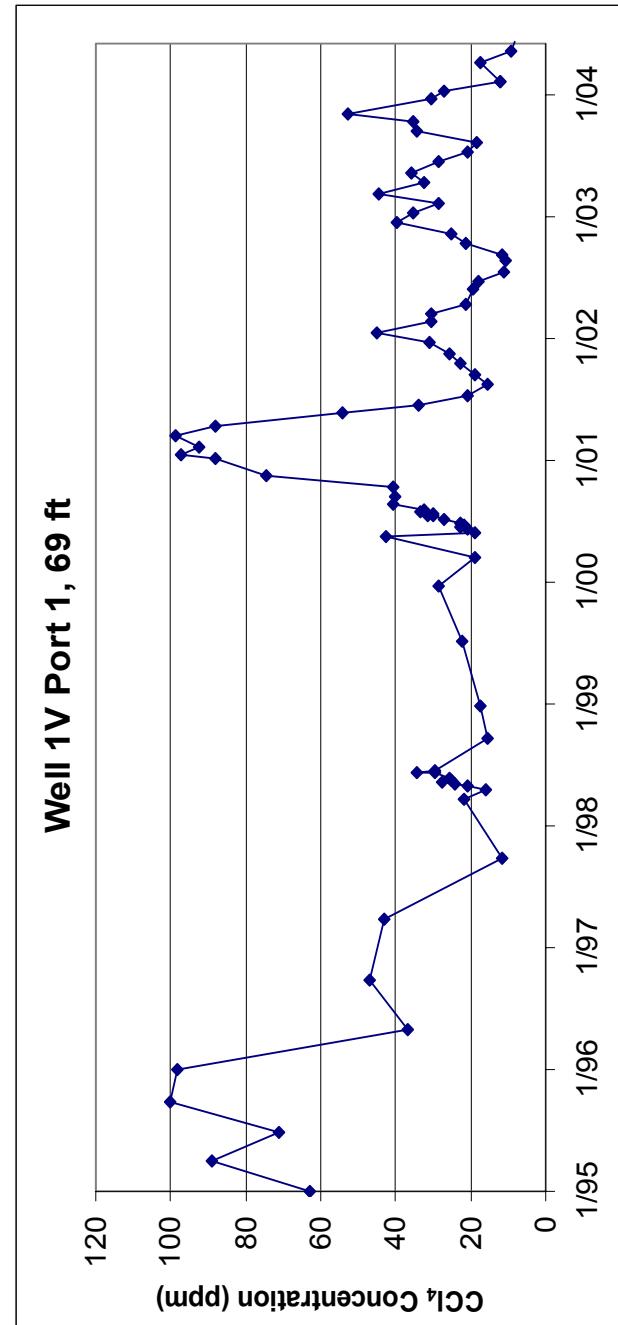


Figure 13. Carbon tetrachloride concentrations (ppm) for Well Port 1V-1.

Table F-14. Monitoring data for Well 1V-2 from January through June 2004.

Well Port 1V-2	Inside Fence Y	Frequency M	Depth 42.5 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/12/04 9:14 AM	1/13/04 9:06 AM	8.05E+00	6.02E+00	1.72E+00	9.36E+00	3.05E+01	4.06E+03
2/4/04 7:56 AM	2/4/04 10:21 AM	6.76E+00	5.88E+00	4.76E+00	8.63E+00	2.03E+01	7.90E+03
3/4/04 9:18 AM	3/4/04 1:45 PM	5.57E+00	4.14E+00	7.55E-01	4.32E+00	1.31E+01	8.59E+03
5/5/04 8:20 AM	5/5/04 10:40 AM	6.30E+00	4.54E+00	1.90E+00	6.86E+00	1.63E+01	1.37E+04
6/7/04 11:10 AM	6/8/04 12:06 PM	5.56E+00	3.90E+00	1.70E+00	3.88E+00	8.61E+00	1.39E+04

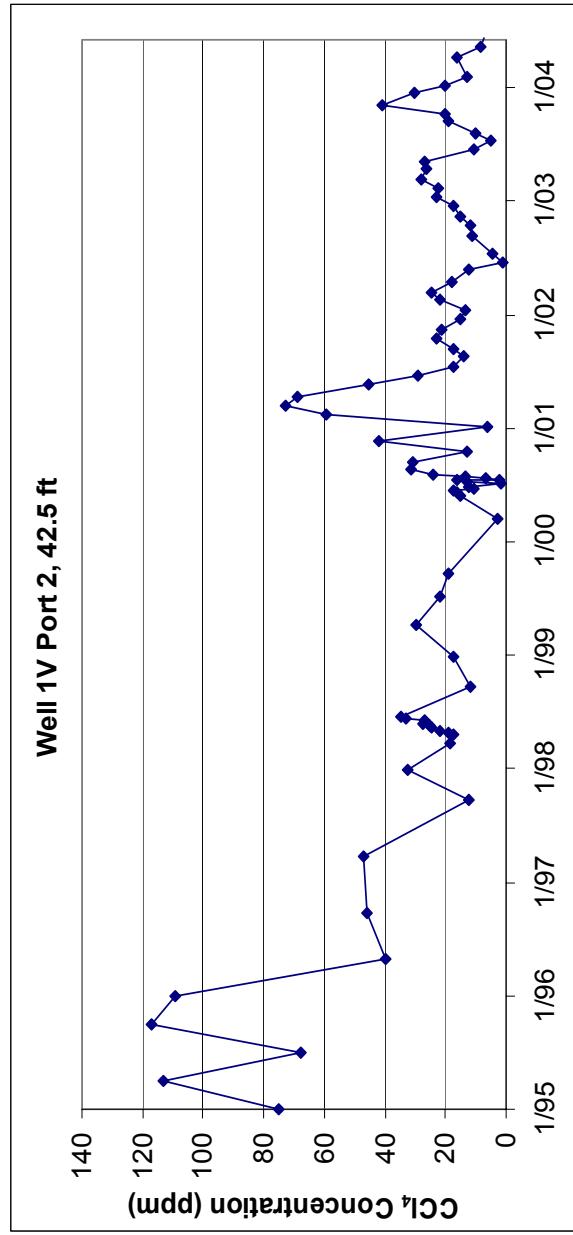


Figure 14. Carbon tetrachloride concentrations (ppmv) for Well Port 1V-2.

Table F-15. Monitoring data for Well 2V-1 from January through June 2004.

Well Port 2V-1	Inside Fence Y	Frequency M	Depth 198 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/12/04 9:18 AM	1/13/04 9:12 AM	5.03E+00	4.14E+00	1.21E+00	6.33E+00	2.05E+01	3.94E+03
2/3/04 4:30 PM	2/4/04 12:18 PM	1.07E+01	5.64E+00	1.26E+00	1.77E+01	4.52E+01	9.10E+03
3/4/04 9:09 AM	3/4/04 2:00 PM	2.18E+00	2.75E+00	4.19E-01	1.44E+00	6.17E+00	9.42E+03
4/6/04 12:23 PM	4/7/04 10:57 AM	6.25E+00	3.90E+00	1.24E+00	7.10E+00	1.80E+01	1.59E+04
4/6/04 12:23 PM	4/7/04 11:00 AM	6.39E+00	3.98E+00	1.23E+00	7.14E+00	1.80E+01	1.58E+04
5/10/04 10:00 AM	5/12/04 10:08 AM	7.74E+00	4.86E+00	1.50E+00	9.86E+00	2.60E+01	1.20E+04
6/7/04 11:15 AM	6/8/04 12:09 PM	4.32E+00	4.53E+00	1.36E+00	3.56E+00	1.11E+01	1.39E+04

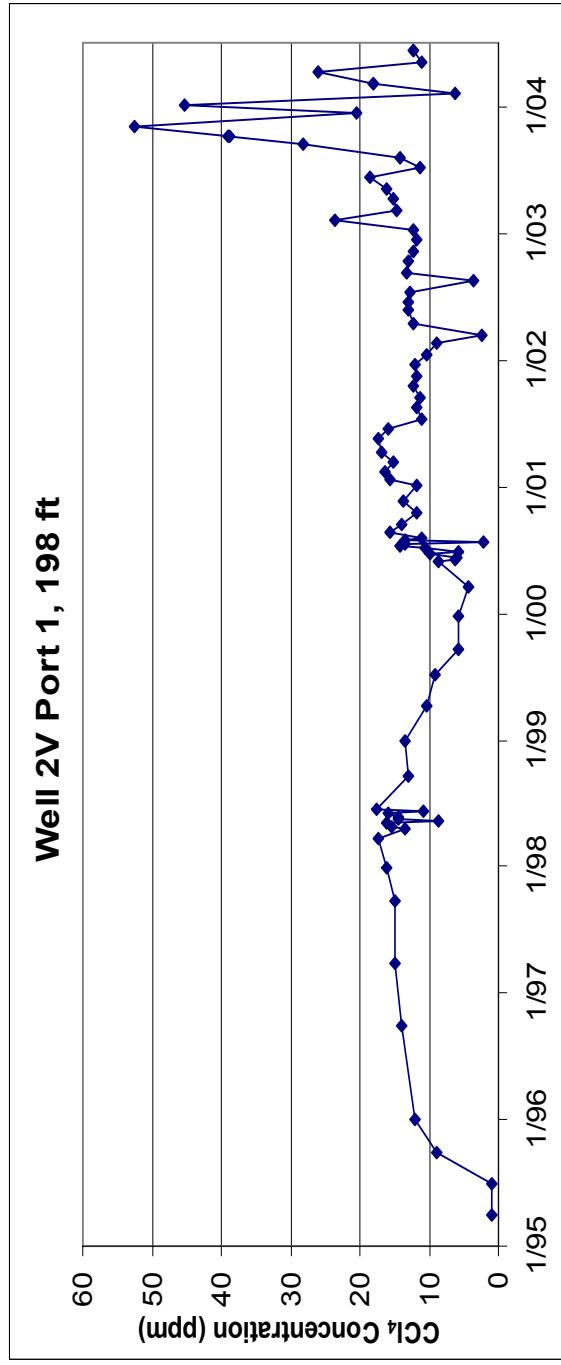


Figure 15. Carbon tetrachloride concentrations (ppmv) for Well Port 2V-1.

Table F-16. Monitoring data for Well 2V-2 from January through June 2004.

Well Port 2V-2	Inside Fence Y	Frequency M	Depth 147 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/12/04 9:19 AM	1/13/04 9:15 AM	4.06E+00	2.94E+00	1.01E+00	5.27E+00	1.47E+01	3.94E+03
2/3/04 4:31 PM	2/4/04 12:21 PM	7.92E+00	4.02E+00	1.06E+00	1.30E+01	3.05E+01	9.25E+03
3/4/04 9:10 AM	3/4/04 2:03 PM	2.28E+00	2.26E+00	3.17E-01	1.56E+00	5.34E+00	9.36E+03
4/6/04 12:24 PM	4/7/04 11:03 AM	5.91E+00	4.29E+00	1.20E+00	6.37E+00	1.59E+01	1.58E+04
5/10/04 10:00 AM	5/12/04 10:11 AM	6.18E+00	3.78E+00	1.35E+00	7.58E+00	1.73E+01	1.20E+04
6/7/04 11:15 AM	6/8/04 12:12 PM	4.17E+00	3.42E+00	1.28E+00	2.41E+00	6.01E+00	1.43E+04

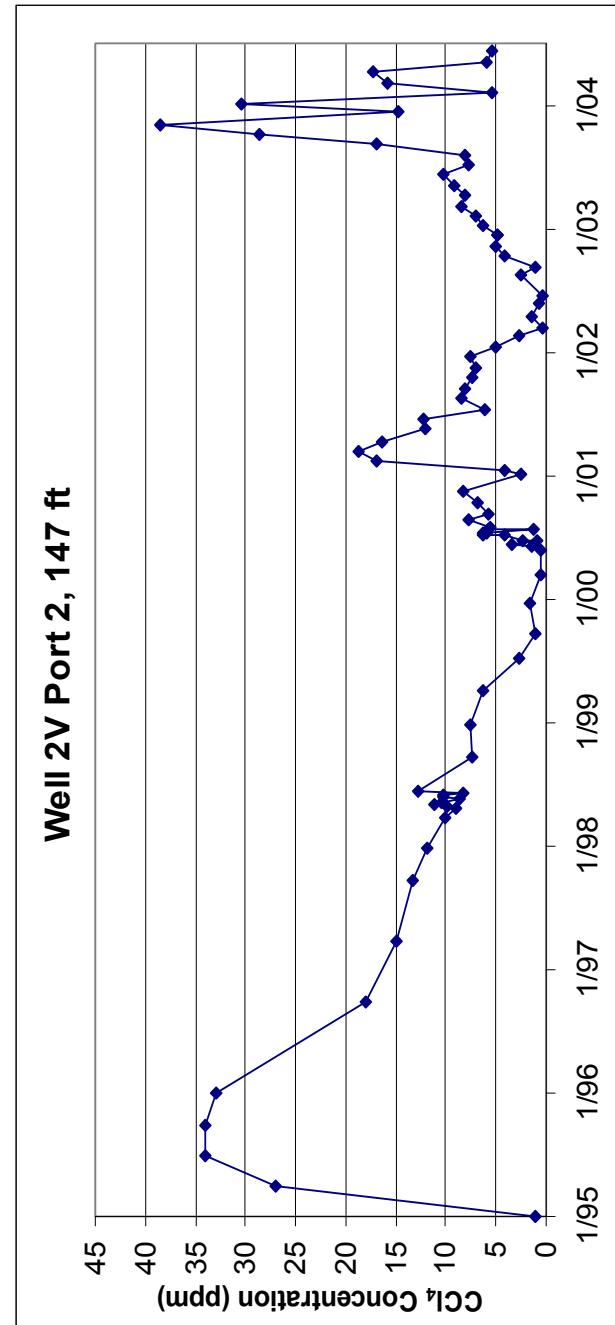


Figure 16. Carbon tetrachloride concentrations (ppm) for Well Port 2V-2.

Table F-17. Monitoring data for Well 2V-3 from January through June 2004.

Well Port 2V-3	Inside Fence Y	Frequency M	Depth 66.5 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/12/04 9:19 AM	1/13/04 9:18 AM	4.36E+00	4.48E+00	1.19E+00	5.70E+00	1.54E+01	4.18E+03
2/3/04 4:32 PM	2/4/04 12:24 PM	7.24E+00	4.47E+00	1.22E+00	1.18E+01	2.76E+01	9.28E+03
3/4/04 9:11 AM	3/4/04 2:07 PM	3.21E+00	3.96E+00	4.46E-01	2.43E+00	7.62E+00	9.00E+03
4/6/04 12:24 PM	4/7/04 11:06 AM	6.53E+00	5.08E+00	1.25E+00	6.50E+00	1.52E+01	1.60E+04
5/10/04 10:00 AM	5/12/04 10:15 AM	5.78E+00	4.01E+00	1.43E+00	6.70E+00	1.49E+01	1.21E+04
6/7/04 11:15 AM	6/8/04 12:16 PM	4.13E+00	3.39E+00	1.23E+00	2.34E+00	5.84E+00	1.46E+04
6/7/04 11:15 AM	6/8/04 12:19 PM	3.90E+00	3.49E+00	1.51E+00	2.54E+00	5.66E+00	1.51E+04

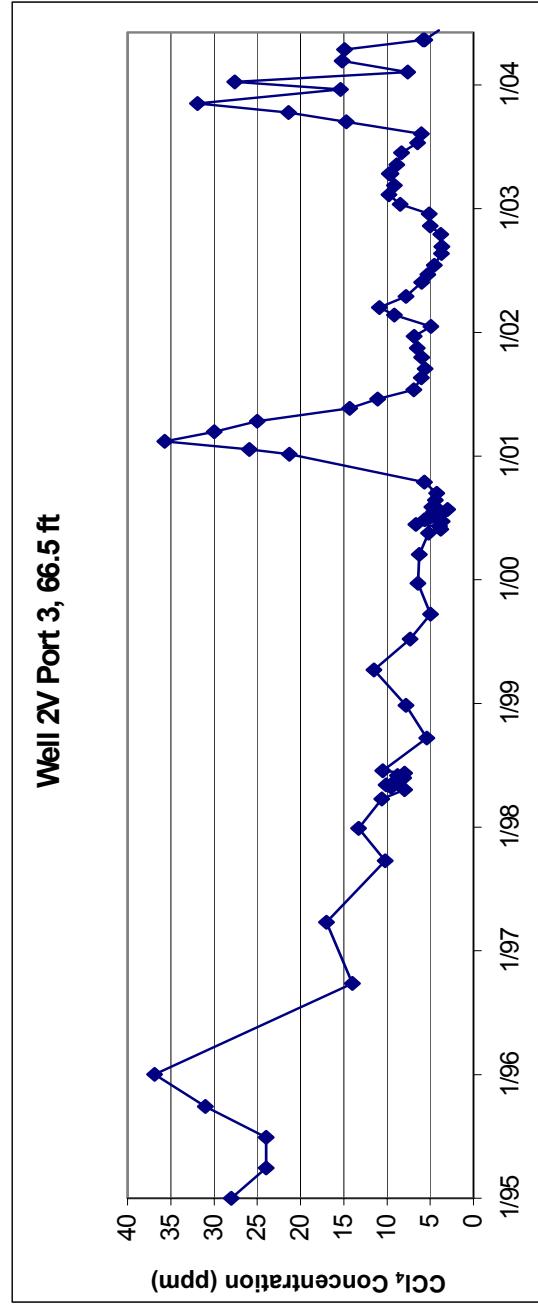


Figure 17. Carbon tetrachloride concentrations (ppm) for Well Port 2V-3.

Table F-18. Monitoring data for Well 2V-4 from January through June 2004.

Well Port 2V-4	Inside Fence Y	Frequency M	Depth 42.5 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/12/04 9:21 AM	1/13/04 9:21 AM	4.09E+00	3.68E+00	1.12E+00	5.22E+00	1.45E+01	4.19E+03
2/3/04 4:33 PM	2/4/04 12:27 PM	7.95E+00	4.65E+00	1.11E+00	1.26E+01	3.04E+01	9.38E+03
3/4/04 9:12 AM	3/4/04 2:09 PM	2.88E+00	3.13E+00	4.45E-01	2.13E+00	7.48E+00	8.61E+03
4/6/04 12:24 PM	4/7/04 11:09 AM	5.54E+00	4.06E+00	1.25E+00	5.55E+00	1.27E+01	1.59E+04
5/10/04 10:00 AM	5/12/04 10:17 AM	4.95E+00	3.23E+00	1.37E+00	5.75E+00	1.22E+01	1.21E+04
6/7/04 11:15 AM	6/8/04 12:21 PM	3.91E+00	3.00E+00	1.16E+00	2.35E+00	5.21E+00	1.45E+04

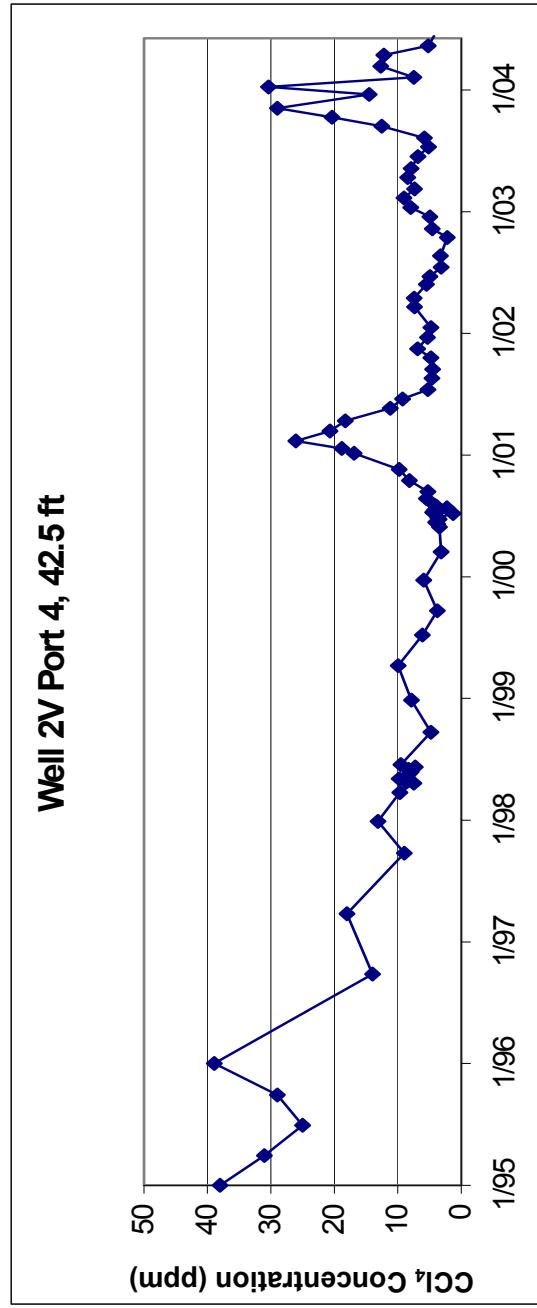


Figure 18. Carbon tetrachloride concentrations (ppmv) for Well Port 2V-4.

Table F-19. Monitoring data for Well 3V-0 from January through June 2004.

Well Port 3V-0	Inside Fence		Frequency M	Depth 0 ft			
	Y						
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)

No sample taken for this reporting period.

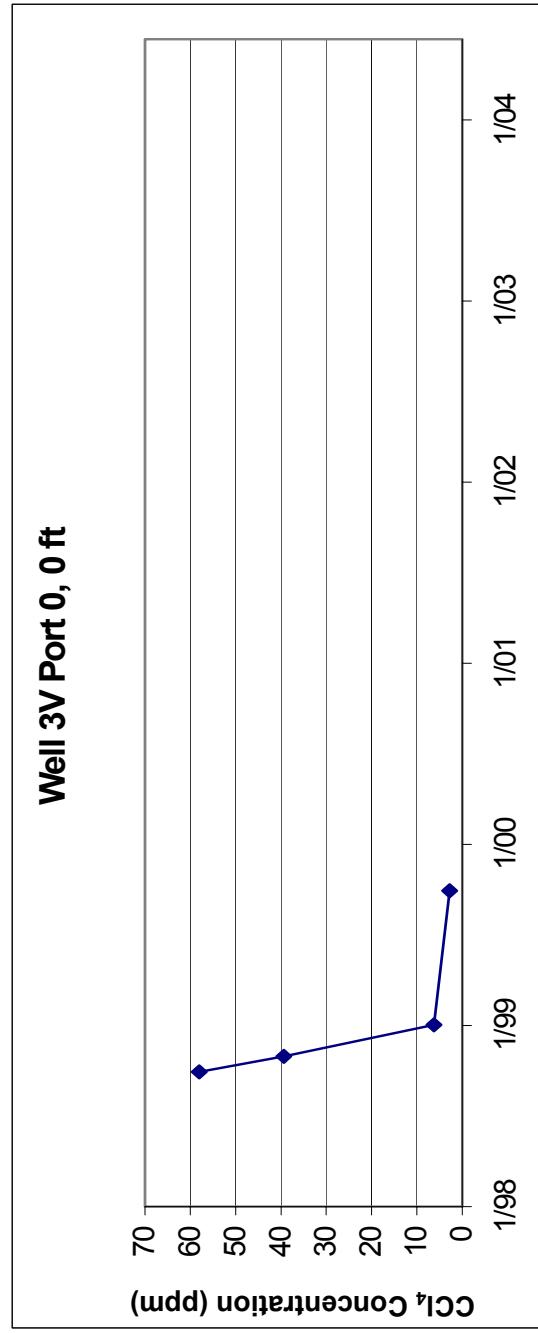


Figure 19. Carbon tetrachloride concentrations (ppmv) for Well Port 3V-0.

Table F-20. Monitoring data for Well 3V-1 from January through June 2004.

Sample Date and Time	Analysis Date and Time	Well Port 3V-1		Inside Fence Y		Frequency M		Depth 140 ft	
		CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)		
No sample taken for this reporting period.									

No sample taken for this reporting period.

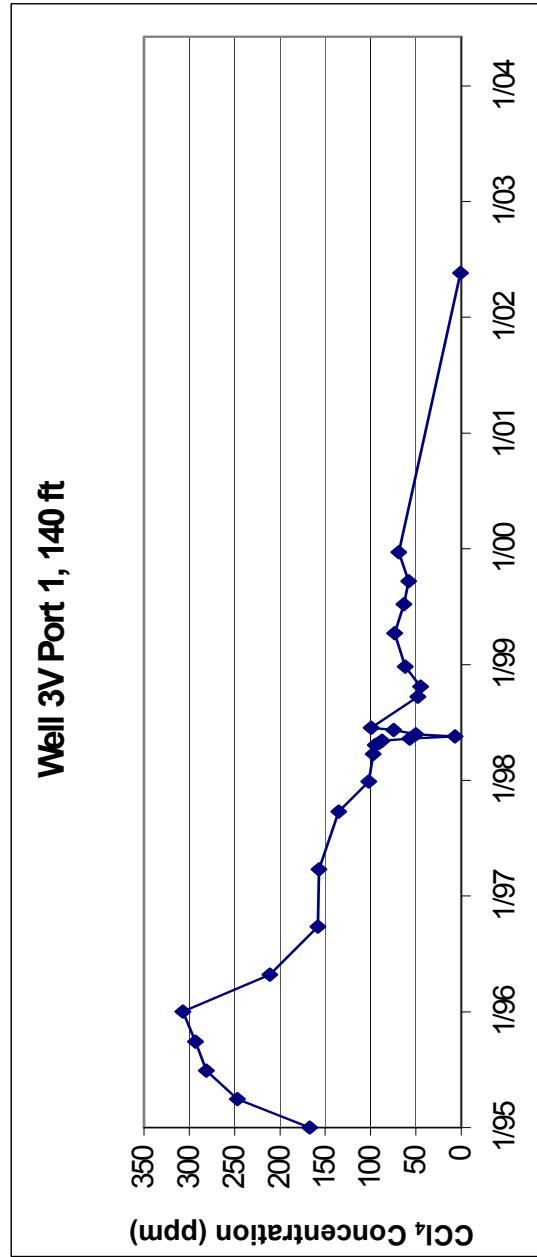


Figure 20. Carbon tetrachloride concentrations (ppmv) for Well Port 3V-1.

Table F-21. Monitoring data for Well 3V-2 from January through June 2004.

Sample Date and Time	Analysis Date and Time	Well Port 3V-2		Inside Fence Y		Frequency M		Depth 86.5 ft	
		CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)		
No sample taken for this reporting period.									

No sample taken for this reporting period.

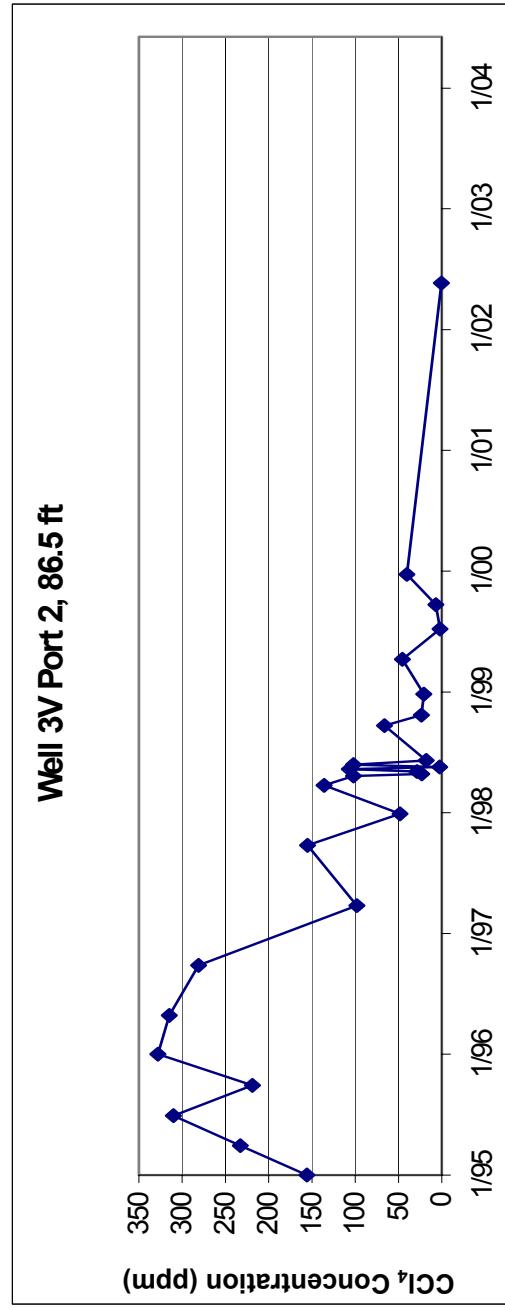


Figure 21. Carbon tetrachloride concentrations (ppmv) for Well Port 3V-2.

Table F-22. Monitoring data for Well 3V-3 from January through June 2004.

Well Port 3V-3	Inside Fence Y	Frequency M	Depth 46.5 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/12/04 8:40 AM	1/13/04 8:54 AM	1.38E+01	8.33E+00	1.93E+00	1.01E+01	5.08E+01	5.63E+03
2/3/04 1:55 PM	2/4/04 11:30 AM	1.42E+01	8.05E+00	2.11E+00	1.23E+01	4.46E+01	7.91E+03
3/1/04 8:37 AM	3/1/04 4:31 PM	2.36E+01	1.23E+01	1.86E+00	2.52E+01	1.07E+02	1.25E+04
4/5/04 10:29 AM	4/5/04 1:37 PM	1.96E+01	9.43E+00	2.51E+00	2.30E+01	6.41E+01	1.50E+04
5/5/04 7:45 AM	5/5/04 11:52 AM	1.27E+01	6.64E+00	1.28E+00	9.76E+00	2.87E+01	1.08E+04
6/7/04 11:25 AM	6/8/04 12:36 PM	1.08E+01	6.33E+00	2.70E+00	1.03E+01	2.29E+01	1.53E+04

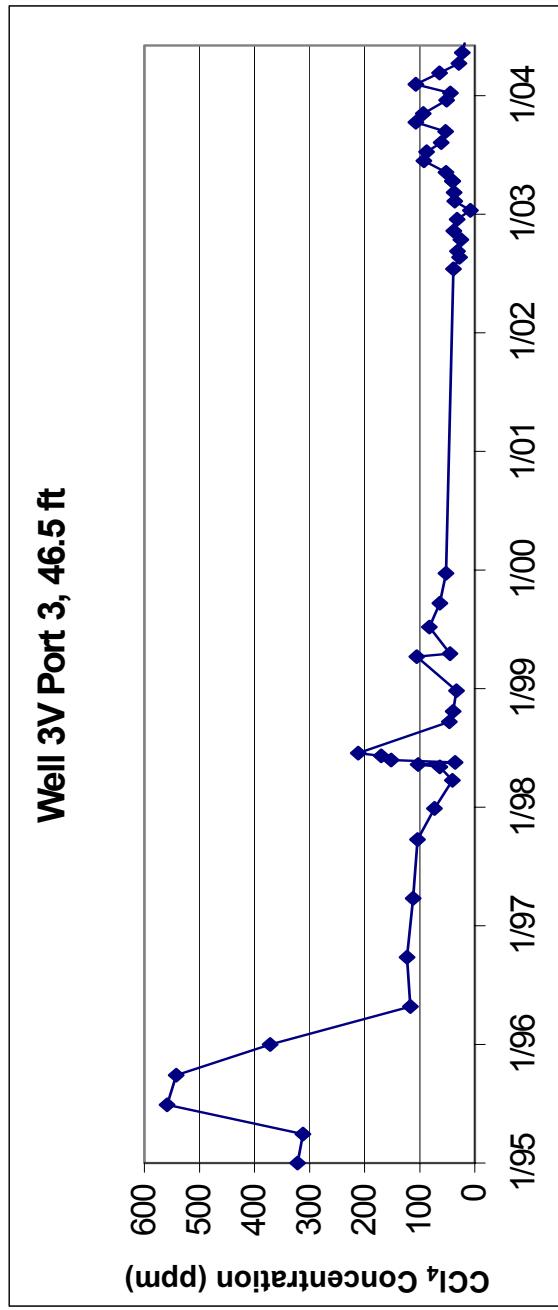


Figure 22. Carbon tetrachloride concentrations (ppmv) for Well Port 3V-3.

Table F-23. Monitoring data for Well 3V-4 from January through June 2004.

Well Port 3V-4	Inside Fence Y	Frequency M	Depth 34.5 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/12/04 8:41 AM	1/13/04 9:00 AM	5.73E+00	4.39E+00	1.41E+00	5.64E+00	2.43E+01	4.05E+03
2/3/04 1:57 PM	2/4/04 11:33 AM	7.09E+00	4.94E+00	1.58E+00	7.67E+00	2.66E+01	7.87E+03
2/3/04 1:57 PM	2/4/04 11:36 AM	7.10E+00	4.92E+00	1.54E+00	7.58E+00	2.65E+01	7.88E+03
3/1/04 8:37 AM	3/1/04 4:34 PM	1.50E+01	8.02E+00	1.71E+00	2.12E+01	7.14E+01	1.09E+04
4/5/04 10:29 AM	4/5/04 1:40 PM	1.08E+01	5.14E+00	2.12E+00	1.74E+01	4.03E+01	1.48E+04
5/5/04 7:46 AM	5/5/04 11:55 AM	6.34E+00	3.60E+00	1.05E+00	6.53E+00	1.63E+01	1.08E+04
6/7/04 11:25 AM	6/8/04 12:39 PM	6.08E+00	3.81E+00	1.86E+00	5.55E+00	1.33E+01	1.52E+04

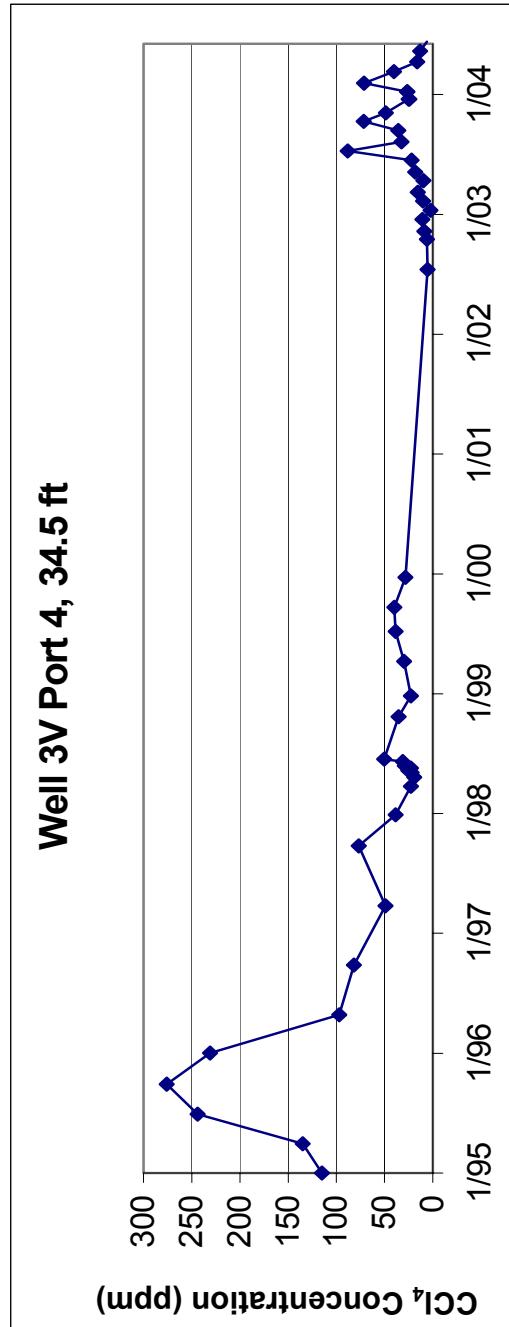


Figure 23. Carbon tetrachloride concentrations (ppmv) for Well Port 3V-4.

Table F-24. Monitoring data for Well 4V-1 from January through June 2004.

Well Port 4V-1	Inside Fence Y	Frequency M	Depth 199 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/12/04 8:50 AM	1/13/04 9:36 AM	5.24E+00	2.79E+00	7.91E-01	3.44E+00	1.54E+01	4.05E+03
2/3/04 3:25 PM	2/4/04 10:33 AM	6.06E+01	1.62E+01	5.23E+00	8.69E+01	2.16E+02	1.14E+04
3/4/04 9:24 AM	3/4/04 1:48 PM	4.58E+00	2.47E+00	4.68E-01	2.62E+00	9.55E+00	9.12E+03
4/6/04 8:54 AM	4/7/04 10:09 AM	9.47E+00	4.26E+00	1.04E+00	7.84E+00	2.82E+01	1.54E+04
4/6/04 8:54 AM	4/7/04 10:12 AM	9.43E+00	4.24E+00	9.67E-01	7.77E+00	2.77E+01	1.55E+04
5/5/04 8:09 AM	5/5/04 10:49 AM	8.19E+00	4.12E+00	1.59E+00	8.13E+00	2.54E+01	1.42E+04
6/9/04 12:22 PM	6/10/04 3:33 PM	6.84E+00	3.25E+00	9.36E-01	3.80E+00	9.64E+00	1.64E+04

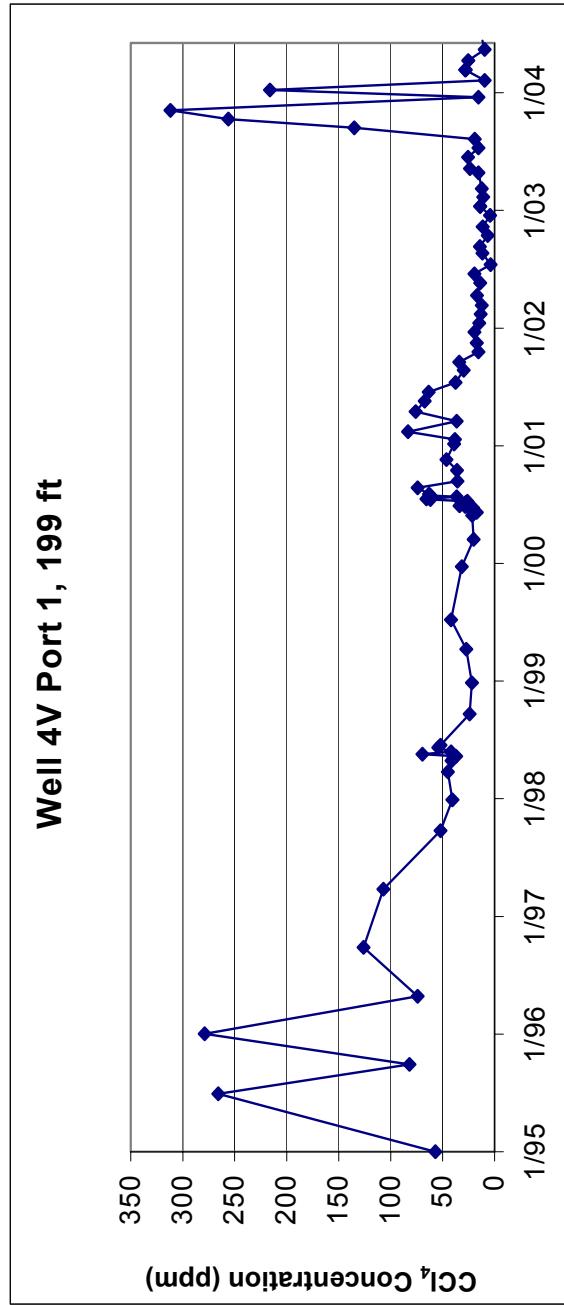


Figure 24. Carbon tetrachloride concentrations (ppmv) for Well Port 4V-1.

Table F-25. Monitoring data for Well 4V-2 from January through June 2004.

Well Port 4V-2	Inside Fence Y	Frequency M	Depth 169 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/12/04 8:51 AM	1/13/04 9:39 AM	2.81E+00	2.25E+00	6.69E-01	2.53E+00	1.21E+01	4.12E+03
2/3/04 3:26 PM	2/4/04 10:39 AM	3.06E+01	9.04E+00	3.17E+00	4.83E+01	1.16E+02	1.02E+04
3/4/04 9:25 AM	3/4/04 1:51 PM	3.08E+00	2.11E+00	4.15E-01	2.07E+00	7.43E+00	8.81E+03
4/6/04 8:54 AM	4/7/04 10:15 AM	4.70E+00	2.55E+00	5.99E-01	3.58E+00	1.50E+01	1.63E+04
5/5/04 8:09 AM	5/5/04 10:52 AM	7.79E+00	4.32E+00	1.66E+00	1.03E+01	3.06E+01	1.19E+04
6/9/04 12:22 PM	6/10/04 3:36 PM	4.27E+00	2.39E+00	5.70E+02	3.19E+01	5.05E+00	1.69E+01

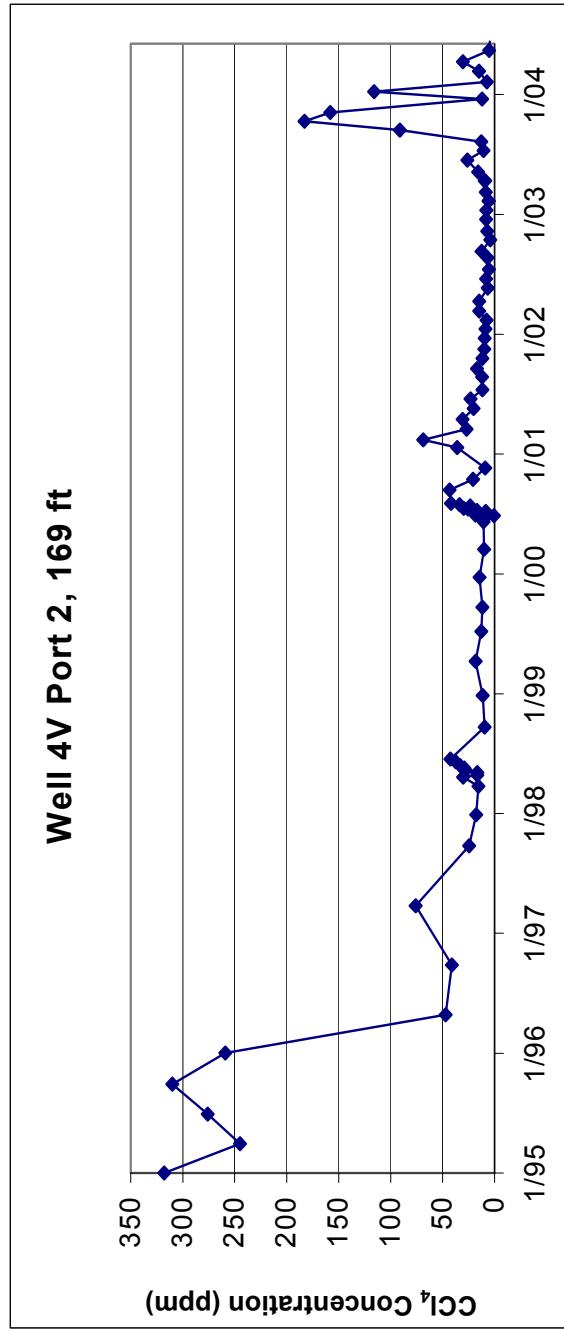


Figure 25. Carbon tetrachloride concentrations (ppmv) for Well Port 4V-2.

Table F-26. Monitoring data for Well 4V-3 from January through June 2004.

Well Port 4V-3	Inside Fence Y	Frequency M	Depth 67.5 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/12/04 8:52 AM	1/13/04 9:42 AM	9.70E+00	6.10E+00	1.06E+00	6.97E+00	4.52E+01	4.04E+03
2/3/04 3:26 PM	2/4/04 10:42 AM	3.35E+01	9.67E+00	3.40E+00	5.12E+01	1.18E+02	1.13E+04
3/4/04 9:26 AM	3/4/04 1:55 PM	5.68E+00	4.67E+00	8.80E-01	3.55E+00	2.34E+01	8.85E+03
4/6/04 8:55 AM	4/7/04 10:18 AM	9.27E+00	6.01E+00	1.23E+00	8.03E+00	4.15E+01	1.55E+04
5/5/04 8:09 AM	5/5/04 10:55 AM	4.89E+00	2.50E+00	1.28E+00	6.02E+00	1.34E+01	1.29E+04
6/9/04 12:00 PM	6/10/04 3:42 PM	3.41E+00	1.92E+00	5.59E-01	1.36E+00	2.65E+00	1.71E+04

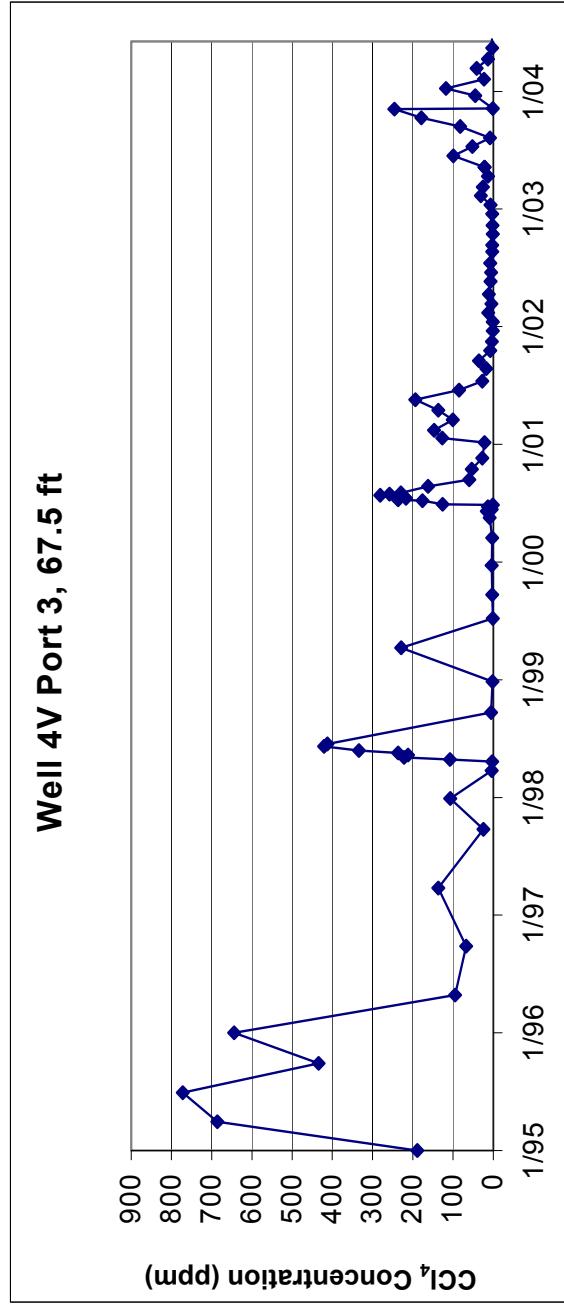


Figure 26. Carbon tetrachloride concentrations (ppmv) for Well Port 4V-3.

Table F-27. Monitoring data for Well 4V-4 from January through June 2004.

Well Port 4V-4	Inside Fence Y	Frequency M	Depth 34.5 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/12/04 8:53 AM	1/13/04 9:45 AM	2.03E+00	1.27E+00	4.35E-01	1.82E+00	5.82E+00	4.75E+03
2/3/04 3:27 PM	2/4/04 10:45 AM	1.55E+01	4.65E+00	2.35E+00	2.74E+01	5.85E+01	9.99E+03
3/4/04 9:27 AM	3/4/04 1:58 PM	2.69E+00	2.02E+00	4.55E-01	2.54E+00	1.23E+01	8.75E+03
4/6/04 8:56 AM	4/7/04 10:21 AM	2.90E+00	1.24E+00	3.98E-01	2.85E+00	7.35E+00	1.60E+04
5/5/04 8:10 AM	5/5/04 10:58 AM	3.74E+00	1.63E+00	1.17E+00	6.11E+00	1.23E+01	1.24E+04
6/9/04 12:00 PM	6/10/04 3:45 PM	2.84E+00	1.64E+00	3.10E-01	6.34E-01	8.06E-01	1.71E+04
6/9/04 12:00 PM	6/10/04 3:48 PM	2.92E+00	1.61E+00	3.53E-01	6.52E-01	7.18E-01	1.73E+04

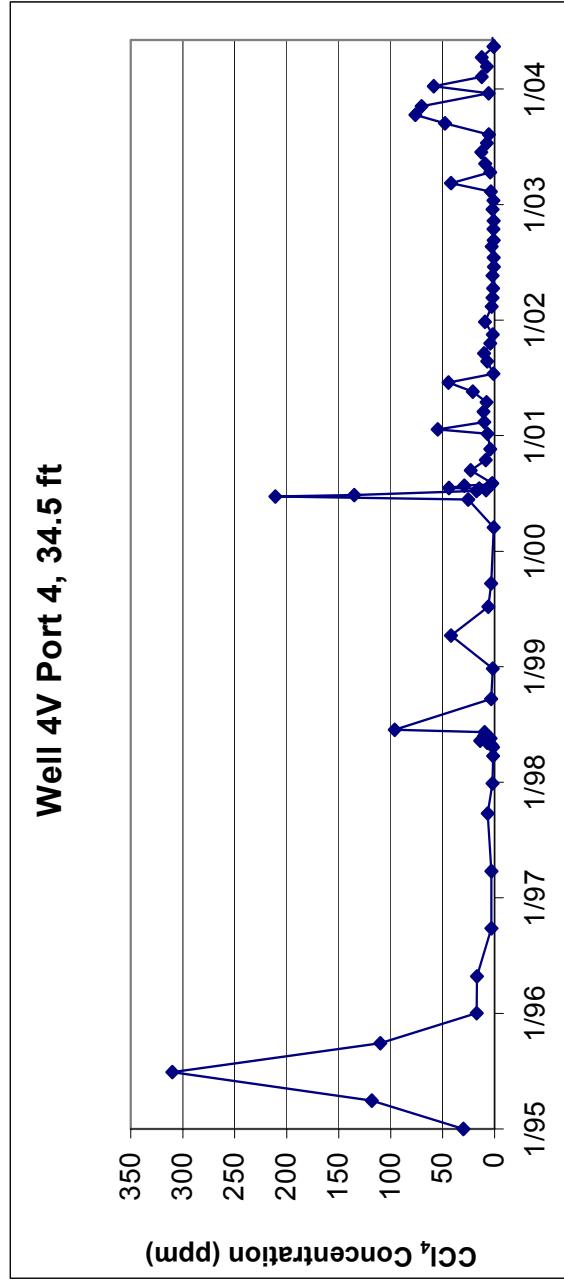


Figure 27. Carbon tetrachloride concentrations (ppmv) for Well Port 4V-4.

Table F-28. Monitoring data for Well 5V-1 from January through June 2004.

Well Port 5V-1	Inside Fence Y	Frequency M	Depth 150 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/8/04 10:03 AM	1/8/04 1:58 PM	8.97E+00	2.67E+00	1.65E+00	1.59E+01	3.03E+01	9.00E+03
2/3/04 4:10 PM	2/4/04 1:21 PM	2.47E+01	6.30E+00	1.39E+00	4.09E+01	9.37E+01	9.06E+03
4/6/04 9:00 AM	4/7/04 10:33 AM	3.01E+00	1.19E+00	4.44E-01	3.37E+00	7.85E+00	1.57E+04
4/6/04 9:00 AM	4/7/04 10:36 AM	2.98E+00	1.10E+00	4.48E-01	3.26E+00	7.61E+00	1.56E+04
5/5/04 8:10 AM	5/5/04 11:01 AM	3.34E+00	1.38E+00	9.68E-01	4.49E+00	8.87E+00	1.34E+04
6/9/04 12:00 PM	6/10/04 3:57 PM	3.50E+00	1.85E+00	7.50E-01	1.59E+00	2.45E+00	1.69E+04

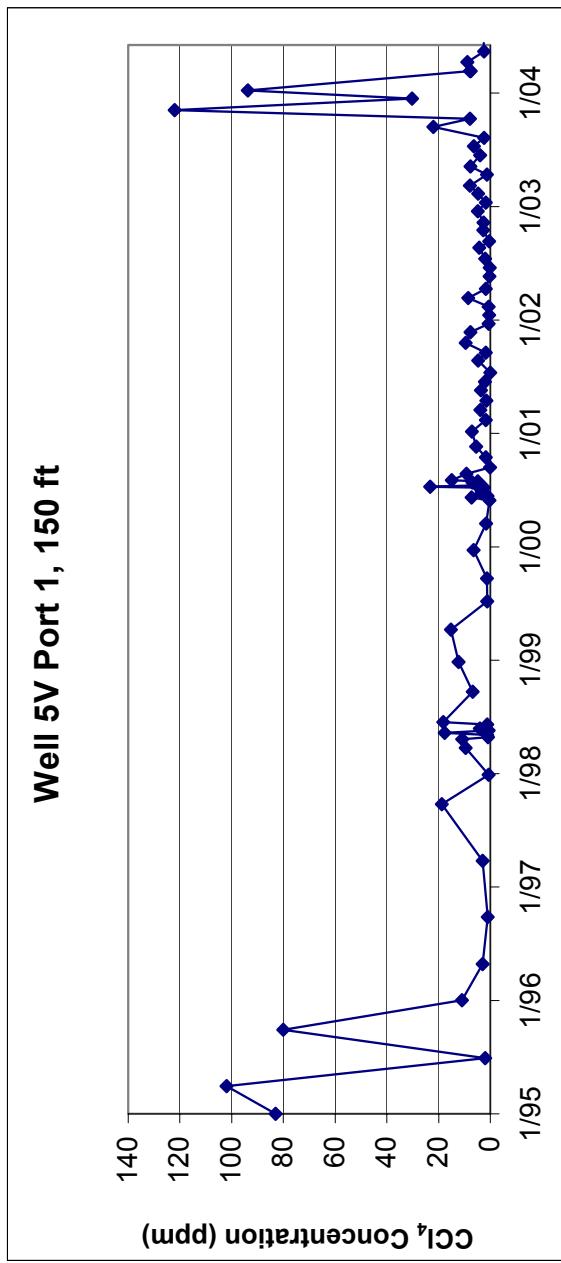


Figure 28. Carbon tetrachloride concentrations (ppmv) for Well Port 5V-1.

Table F-29. Monitoring data for Well 5V-2 from January through June 2004.

Well Port 5V-2	Inside Fence Y	Frequency M	Depth 84.5 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/8/04 10:03 AM	1/8/04 2:01 PM	7.13E+00	2.24E+00	1.50E+00	1.30E+01	2.43E+01	8.81E+03
1/8/04 10:03 AM	1/8/04 2:04 PM	7.08E+00	2.26E+00	1.39E+00	1.29E+01	2.42E+01	8.73E+03
2/3/04 4:11 PM	2/4/04 1:24 PM	1.76E+01	4.86E+00	1.19E+00	3.05E+01	6.62E+01	9.04E+03
4/6/04 9:00 AM	4/7/04 10:40 AM	2.94E+00	1.11E+00	3.94E-01	2.79E+00	7.07E+00	1.55E+04
5/5/04 8:15 AM	5/5/04 11:04 AM	3.60E+00	1.59E+00	9.27E-01	4.09E+00	1.02E+01	1.37E+04

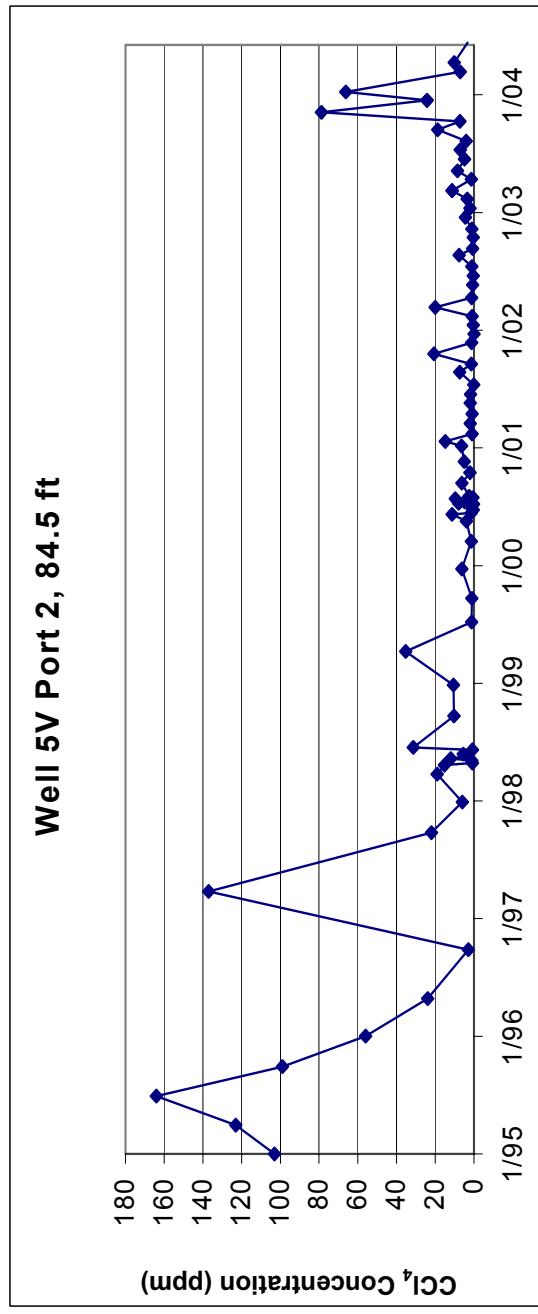


Figure 29. Carbon tetrachloride concentrations (ppmv) for Well Port 5V-2.

Table F-30. Monitoring data for Well 5V-3 from January through June 2004.

Well Port 5V-3	Inside Fence Y	Frequency M	Depth 48.5 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/8/04 10:04 AM	1/8/04 2:07 PM	1.11E+01	6.31E+00	1.87E+00	1.53E+01	5.18E+01	8.82E+03
2/3/04 4:11 PM	2/4/04 1:27 PM	2.18E+01	8.86E+00	1.71E+00	3.22E+01	9.16E+01	9.15E+03
3/1/04 11:17 AM	3/1/04 4:10 PM	9.20E+00	5.68E+00	1.30E+00	1.04E+01	3.78E+01	1.04E+04
4/6/04 9:01 AM	4/7/04 10:42 AM	7.92E+00	4.42E+00	7.91E-01	5.98E+00	2.88E+01	1.56E+04
5/5/04 8:15 AM	5/5/04 11:08 AM	6.33E+00	3.29E+00	1.01E+00	6.04E+00	1.95E+01	1.32E+04
5/5/04 8:15 AM	5/5/04 11:11 AM	6.30E+00	3.42E+00	1.02E+00	5.96E+00	1.95E+01	1.30E+04
6/9/04 12:00 PM	6/10/04 4:00 PM	3.97E+00	1.85E+00	5.44E-01	1.37E+00	3.79E+00	1.86E+04

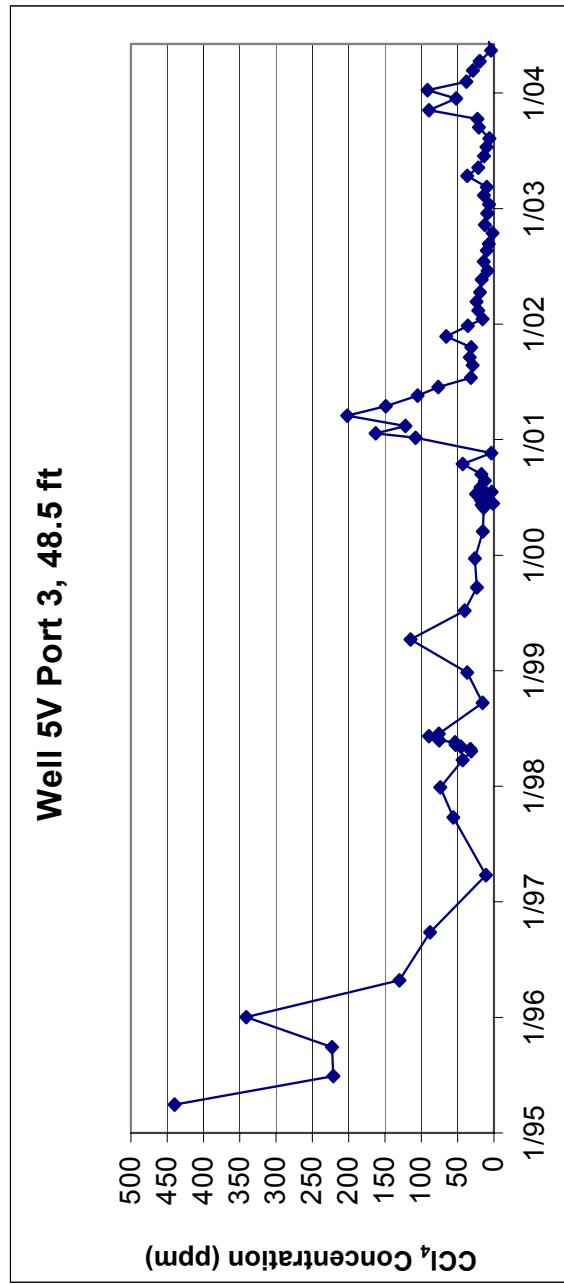


Figure 30. Carbon tetrachloride concentrations (ppmv) for Well Port 5V-3.

Table F-31. Monitoring data for Well 6V-1 from January through June 2004.

Well Port 6V-1	Inside Fence Y	Frequency M	Depth 227 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/12/04 8:29 AM	1/12/04 3:21 PM	7.43E+00	7.42E+00	3.18E+00	5.65E+00	3.10E+01	1.22E+04
2/3/04 2:58 PM	2/4/04 11:03 AM	9.00E+00	8.00E+00	2.80E+00	9.94E+00	4.01E+01	7.80E+03
3/1/04 11:28 AM	3/1/04 3:13 PM	1.16E+01	9.02E+00	2.90E+00	1.25E+01	4.73E+01	2.54E+04
4/6/04 9:32 AM	4/7/04 9:40 AM	7.84E+00	6.41E+00	1.90E+00	4.60E+00	2.45E+01	1.52E+04
5/4/04 8:15 AM	5/4/04 1:16 PM	9.18E+00	7.65E+00	2.31E+00	7.07E+00	3.34E+01	1.36E+04
5/4/04 8:15 AM	5/4/04 1:18 PM	9.16E+00	7.68E+00	2.34E+00	7.08E+00	3.36E+01	1.35E+04
6/7/04 11:30 AM	6/8/04 12:42 PM	1.52E+01	1.00E+01	3.51E+00	1.46E+01	5.13E+01	1.49E+04

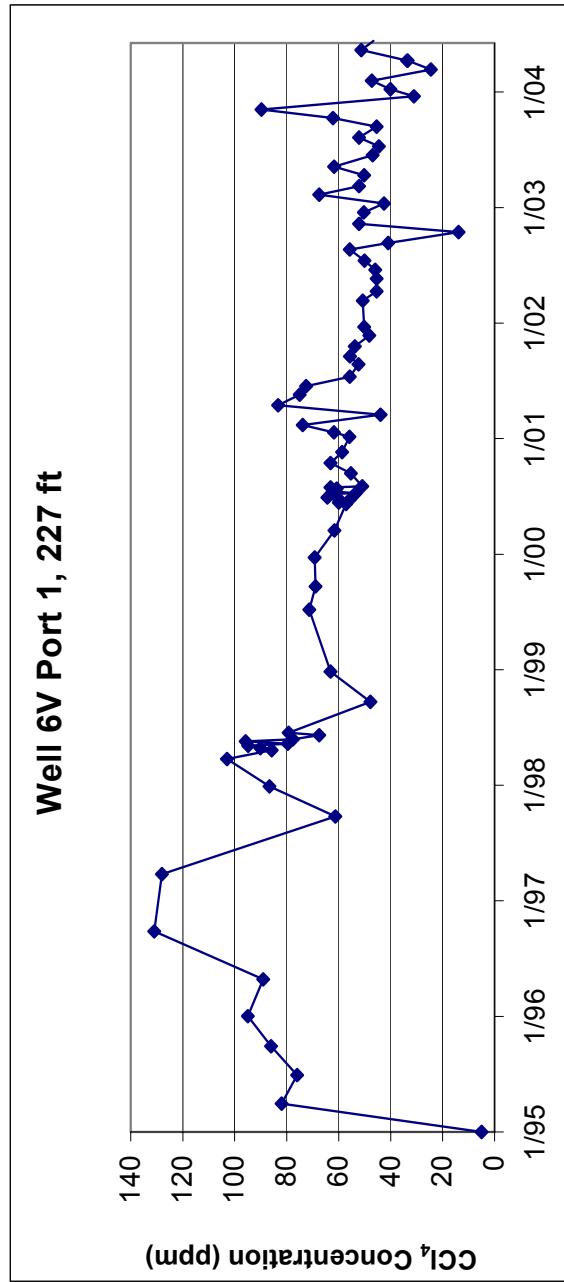


Figure 31. Carbon tetrachloride concentrations (ppmv) for Well Port 6V-1.

Table F-32. Monitoring data for Well 6V-2 from January through June 2004.

Well Port 6V-2	Inside Fence Y	Frequency M	Depth 166 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/12/04 8:30 AM	1/12/04 3:24 PM	8.62E+00	6.86E+00	2.78E+00	7.36E+00	3.10E+01	1.04E+04
2/3/04 3:00 PM	2/4/04 11:06 AM	9.63E+00	6.94E+00	2.66E+00	1.03E+01	3.17E+01	7.71E+03
2/3/04 3:00 PM	2/4/04 11:09 AM	9.68E+00	7.05E+00	2.58E+00	1.04E+01	3.16E+01	7.68E+03
3/1/04 11:30 AM	3/1/04 3:10 PM	1.19E+01	8.31E+00	2.78E+00	1.43E+01	4.76E+01	1.23E+04
4/6/04 9:32 AM	4/7/04 9:43 AM	1.10E+01	7.60E+00	1.95E+00	6.96E+00	3.87E+01	1.54E+04
5/4/04 8:29 AM	5/4/04 1:22 PM	1.22E+01	8.45E+00	2.32E+00	9.71E+00	4.32E+01	1.35E+04
6/7/04 11:30 AM	6/8/04 12:46 PM	1.05E+01	6.79E+00	2.58E+00	1.07E+01	2.75E+01	1.53E+04

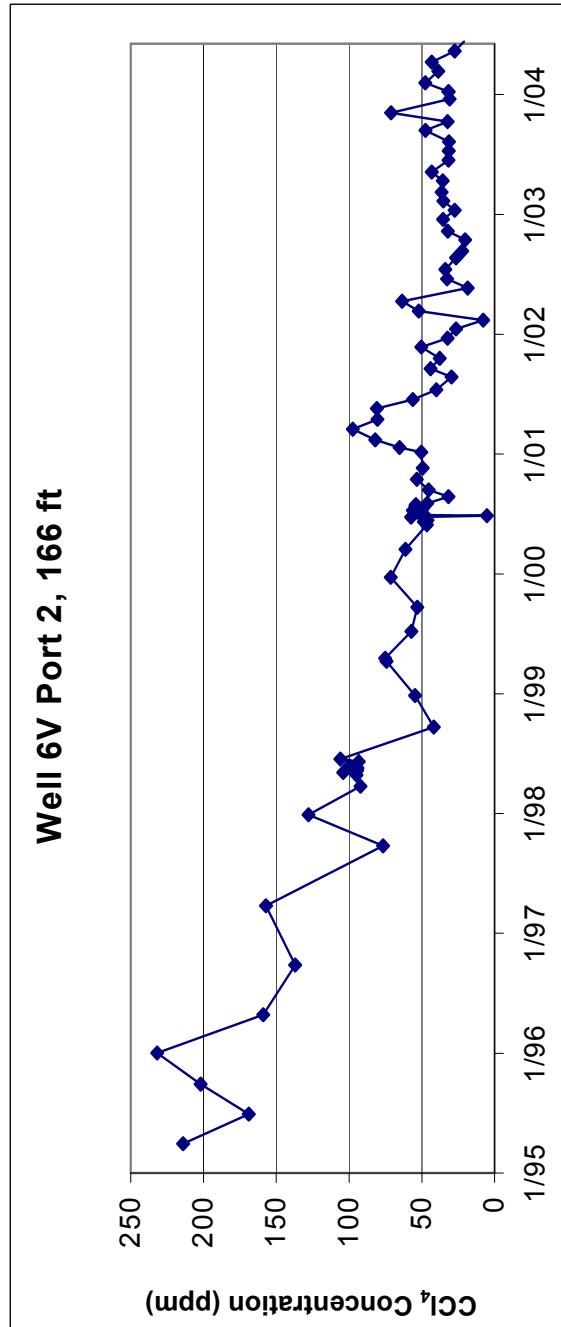


Figure 32. Carbon tetrachloride concentrations (ppmv) for Well Port 6V-2.

Table F-33. Monitoring data for Well 6V-3 from January through June 2004.

Well Port 6V-3	Inside Fence Y	Frequency M	Depth 92.5 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/12/04 8:31 AM	1/12/04 3:27 PM	4.02E+00	3.02E+00	1.87E+00	4.00E+00	1.17E+01	1.03E+04
2/3/04 3:02 PM	2/4/04 11:12 AM	3.32E+00	2.00E+00	1.23E+00	3.73E+00	8.54E+00	7.80E+03
3/1/04 11:33 AM	3/1/04 3:17 PM	9.73E+00	6.39E+00	2.47E+00	1.15E+01	3.17E+01	1.12E+04
4/6/04 9:32 AM	4/7/04 9:46 AM	3.96E+00	2.01E+00	6.52E-01	4.12E+00	1.43E+01	1.55E+04
5/4/04 8:29 AM	5/4/04 1:24 PM	8.55E+00	5.19E+00	2.05E+00	6.66E+00	2.04E+01	1.33E+04
6/7/04 11:30 AM	6/8/04 12:48 PM	8.77E+00	5.11E+00	2.05E+00	5.85E+00	1.64E+01	1.56E+04

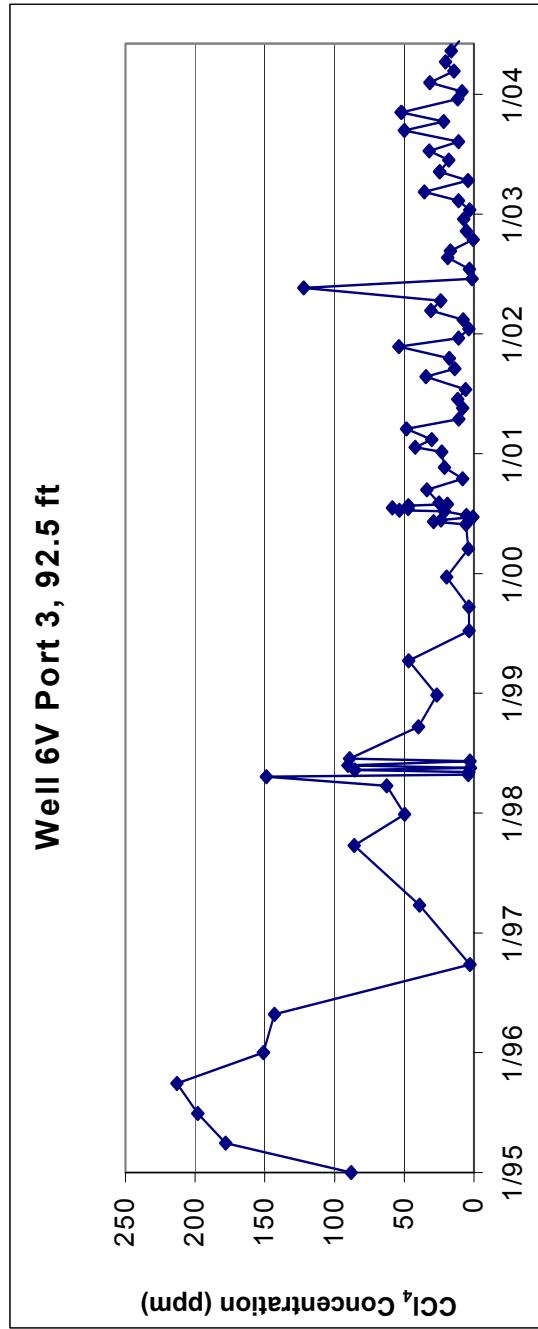


Table F-34. Monitoring data for Well 6V-4 from January through June 2004.

Well Port 6V-4	Inside Fence Y	Frequency M	Depth 62.5 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/12/04 8:32 AM	1/12/04 3:30 PM	6.73E+00	5.13E+00	2.25E+00	5.03E+00	1.42E+01	1.04E+04
2/3/04 3:03 PM	2/4/04 11:15 AM	8.38E+00	5.80E+00	2.40E+00	7.15E+00	1.74E+01	7.77E+03
3/1/04 11:35 AM	3/1/04 3:19 PM	8.42E+00	5.31E+00	2.26E+00	1.01E+01	2.33E+01	2.70E+04
3/1/04 11:35 AM	3/1/04 3:22 PM	8.01E+00	5.41E+00	2.31E+00	1.01E+01	2.34E+01	1.94E+04
4/6/04 9:33 AM	4/7/04 9:49 AM	7.75E+00	4.99E+00	1.72E+00	4.93E+00	1.54E+01	1.53E+04
5/4/04 8:29 AM	5/4/04 1:27 PM	1.24E+01	8.42E+00	2.97E+00	7.80E+00	2.47E+01	1.36E+04
6/7/04 11:30 AM	6/8/04 12:51 PM	1.07E+01	7.21E+00	2.86E+00	7.85E+00	1.72E+01	1.53E+04

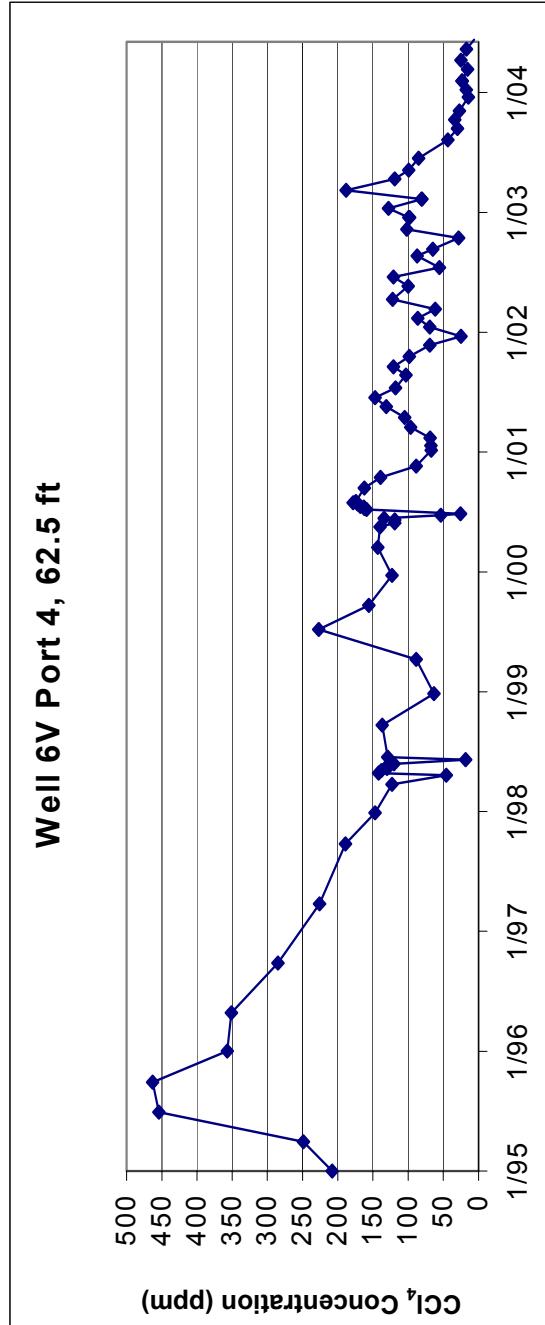


Figure 34. Carbon tetrachloride concentrations (ppmv) for Well Port 6V-4.

Table F-35. Monitoring data for Well 7V-0 from January through June 2004.

Well Port 7V-0	Inside Fence Y	Frequency M	Depth 0 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)

No sample taken for this reporting period.

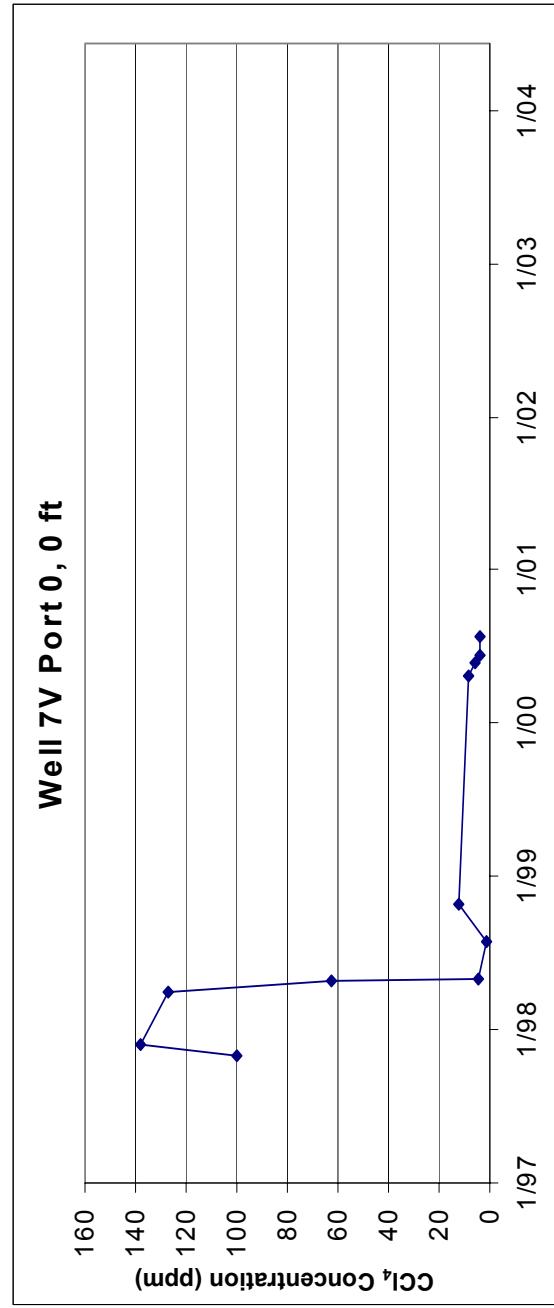


Figure 35. Carbon tetrachloride concentrations (ppmv) for Well Port 7V-0.

Table F-36. Monitoring data for Well 7V-1 from January through June 2004.

Well Port 7V-1	Inside Fence		Frequency M	Depth 209 ft
	Y			
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)
1/8/04 9:20 AM	1/8/04 3:51 PM	1.08E+02	2.54E+01	2.77E+00
2/3/04 3:07 PM	2/4/04 11:21 AM	1.21E+01	1.81E+01	6.17E+00
3/1/04 10:43 AM	3/1/04 4:02 PM	1.18E+01	6.05E+00	1.88E+00
4/6/04 9:41 AM	4/7/04 11:31 AM	6.48E+00	3.96E+00	1.03E+00
5/4/04 7:51 AM	5/4/04 12:45 PM	6.62E+00	4.33E+00	1.70E+00
6/9/04 12:53 PM	6/10/04 4:27 PM	1.02E+01	8.89E+00	5.90E+00
				1.26E+01
				2.96E+01
				1.71E+04

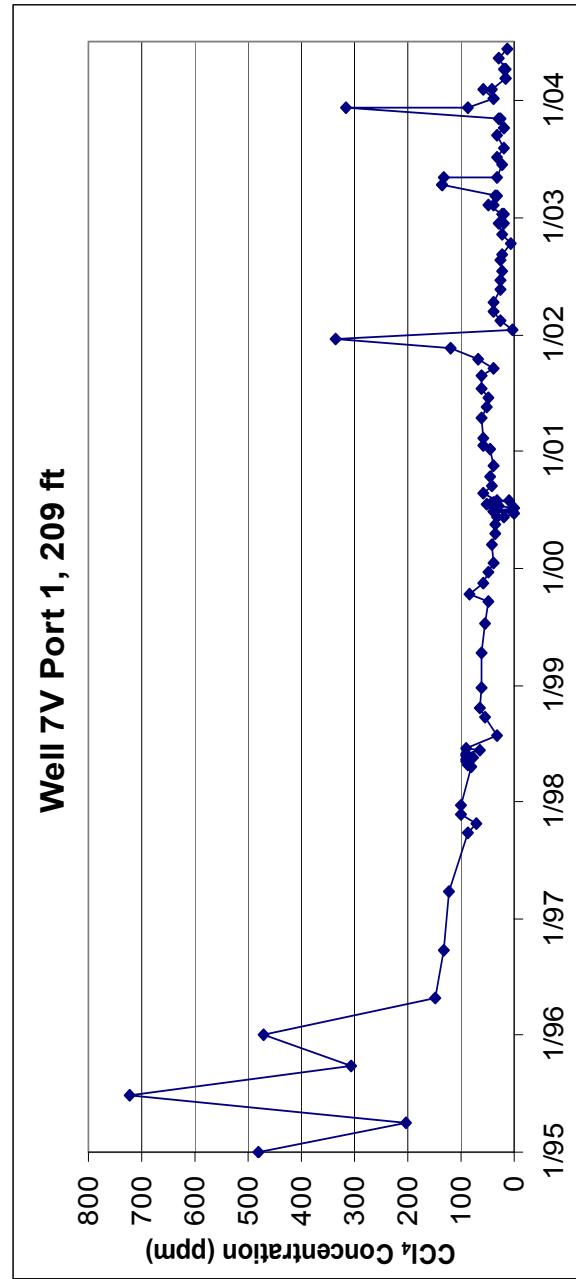


Figure 36. Carbon tetrachloride concentrations (ppmv) for Well Port 7V-1.

Table F-37. Monitoring data for Well 7V-2 from January through June 2004.

Well Port 7V-2	Inside Fence Y	Frequency M	Depth 147 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
6/9/04 12:49 PM	6/10/04 4:37 PM	1.13E+00	8.18E-01	1.20E-01	1.72E-01	1.29E-01	1.81E+04

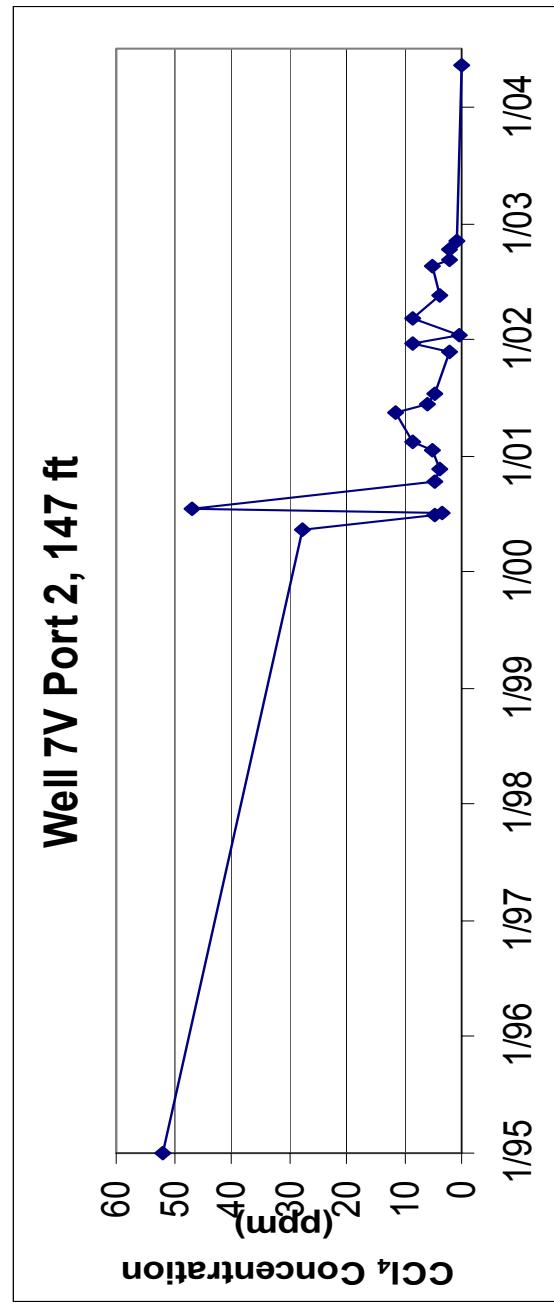


Figure 37. Carbon tetrachloride concentrations (ppmv) for Well Port 7V-2.

Table F-38. Monitoring data for Well 7V-3 from January through June 2004.

Well Port 7V-3	Inside Fence Y	Frequency M	Depth 80.5 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/8/04 9:21 AM	1/8/04 4:00 PM	4.88E+01	1.16E+01	1.87E+00	6.84E+01	1.41E+02	8.48E+03
2/3/04 3:10 PM	2/4/04 11:24 AM	5.04E+00	4.53E+00	2.00E+00	7.31E+00	1.29E+01	7.81E+03
3/1/04 10:45 AM	3/1/04 4:04 PM	1.29E+01	4.54E+00	1.03E+00	1.78E+01	4.64E+01	1.04E+04
5/4/04 7:51 AM	5/4/04 12:48 PM	4.70E+00	3.28E+00	1.37E+00	4.93E+00	9.54E+00	1.36E+04
6/9/04 12:50 PM	6/10/04 4:39 PM	8.04E+00	6.48E+00	3.13E+00	8.72E+00	1.68E+01	1.74E+04

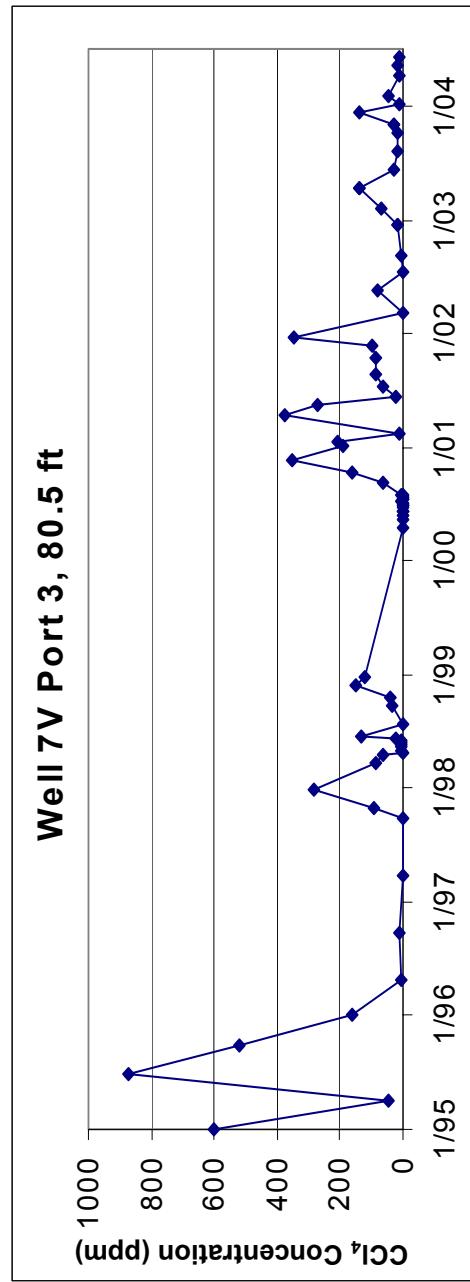


Figure 38. Carbon tetrachloride concentrations (ppmv) for Well Port 7V-3.

Table F-39. Monitoring data for Well 7V-4 from January through June 2004.

Well Port 7V-4	Inside Fence Y	Frequency M	Depth 42.5 ft	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/8/04 9:22 AM	1/8/04 4:03 PM	4.17E+01	1.30E+01	2.90E+00	5.99E+01	1.08E+02	8.20E+03		
2/3/04 3:12 PM	2/4/04 11:27 AM	8.52E+00	8.08E+00	3.55E+00	7.98E+00	7.73E+00	7.84E+03		
3/1/04 10:47 AM	3/1/04 4:07 PM	1.18E+01	7.12E+00	2.17E+00	1.68E+01	3.01E+01	1.01E+04		
4/6/04 9:43 AM	4/7/04 11:39 AM	5.29E+00	3.67E+00	9.99E-01	3.83E+00	8.79E+00	1.64E+04		
5/4/04 7:51 AM	5/4/04 12:51 PM	5.82E+00	5.01E+00	1.91E+00	5.73E+00	9.42E+00	1.37E+04		
6/9/04 12:51 PM	6/10/04 4:42 PM	6.69E+00	5.70E+00	3.25E+00	5.74E+00	7.90E+00	1.72E+04		

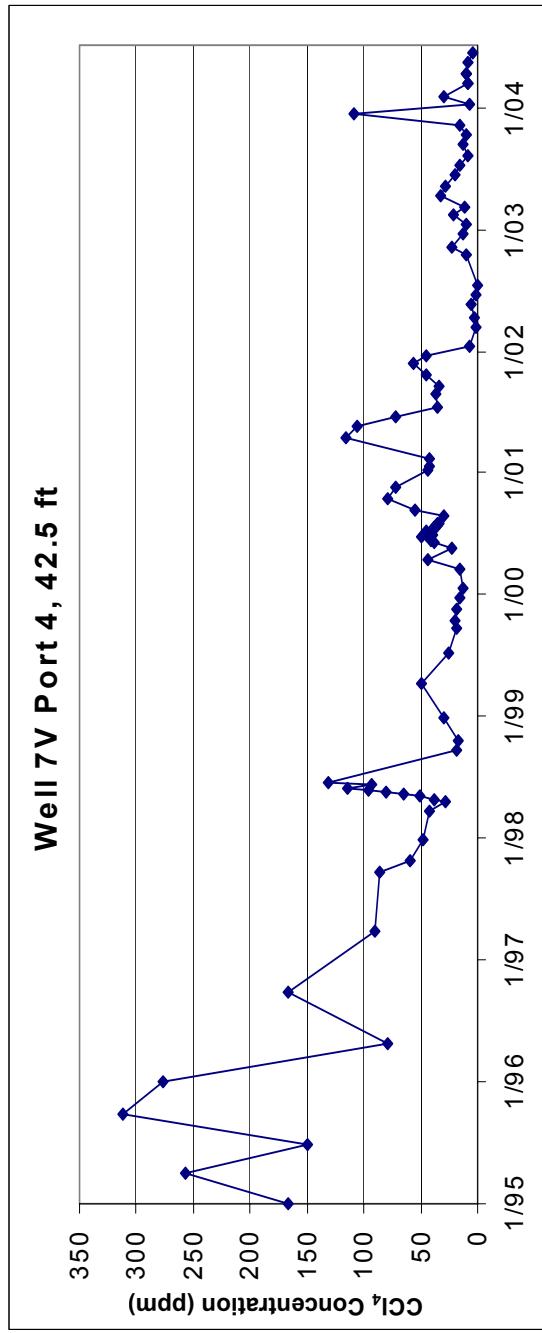


Figure 39. Carbon tetrachloride concentrations (ppm) for Well Port 7V-4.

Table F-40. Monitoring data for Well 8V-1 from January through June 2004.

Well Port	Inside Fence	Frequency	Depth	H ₂ O
8V-1	Y	M	226 ft	(ppmv)
Sample Date and Time	Analysis Date and Time	CHCl ₃	TCA	PCE
1/8/04 9:15 AM	1/8/04 1:46 PM	1.12E+01	8.53E+00	3.77E+00
3/1/04 11:03 AM	3/1/04 3:25 PM	1.22E+01	8.83E+00	2.69E+00
4/6/04 9:06 AM	4/7/04 11:51 AM	9.14E+00	8.04E+00	2.07E+00
5/4/04 8:03 AM	5/4/04 12:57 PM	9.03E+00	8.84E+00	2.91E+00
6/9/04 12:52 PM	6/10/04 4:45 PM	9.89E+00	9.59E+00	3.02E+00

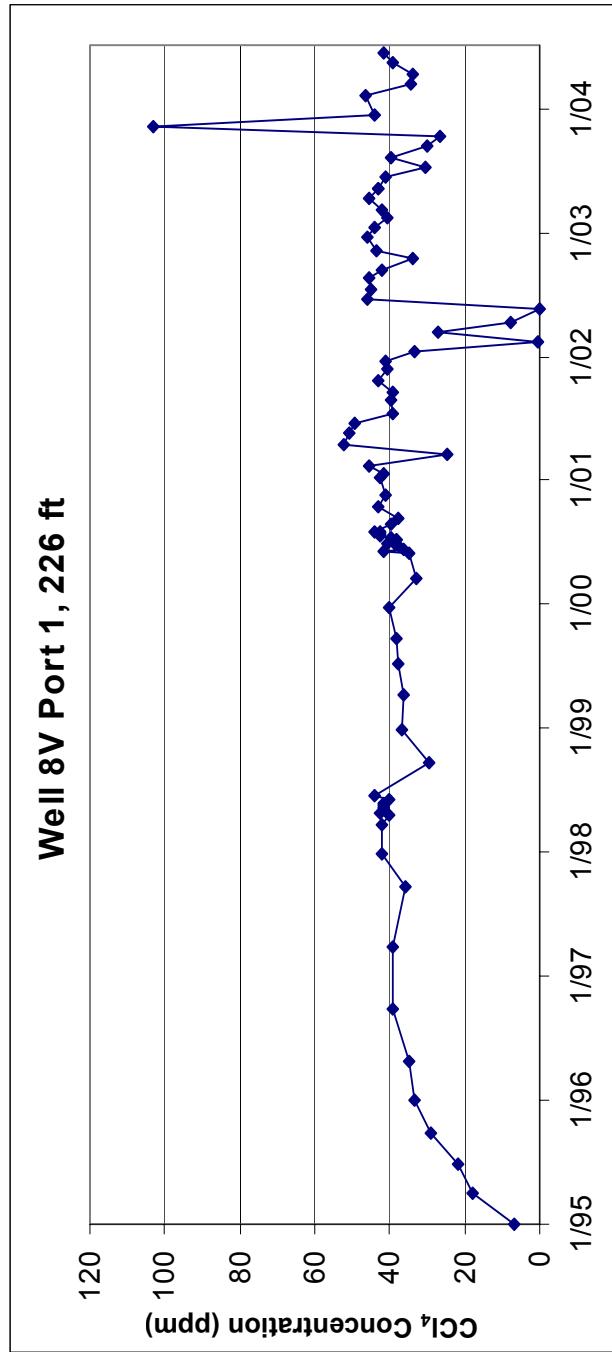


Figure 40. Carbon tetrachloride concentrations (ppmv) for Well Port 8V-1.

Table F-41. Monitoring data for Well 8V-2 from January through June 2004.

Well Port 8V-2	Inside Fence Y	Frequency M	Depth 128 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/8/04 9:16 AM	1/8/04 1:49 PM	7.31E+00	3.32E+00	2.03E+00	1.27E+01	2.95E+01	1.05E+04
3/1/04 11:05 AM	3/1/04 3:28 PM	4.65E+00	4.05E+00	1.18E+00	5.91E+00	2.06E+01	1.86E+04
4/6/04 9:06 AM	4/7/04 11:54 AM	7.67E+00	7.12E+00	1.55E+00	6.90E+00	3.60E+01	1.61E+04
5/4/04 8:03 AM	5/4/04 1:00 PM	7.90E+00	7.67E+00	2.19E+00	6.60E+00	3.43E+01	1.37E+04
6/9/04 12:53 PM	6/10/04 4:48 PM	8.63E+00	8.31E+00	2.41E+00	7.55E+00	3.83E+01	1.72E+04

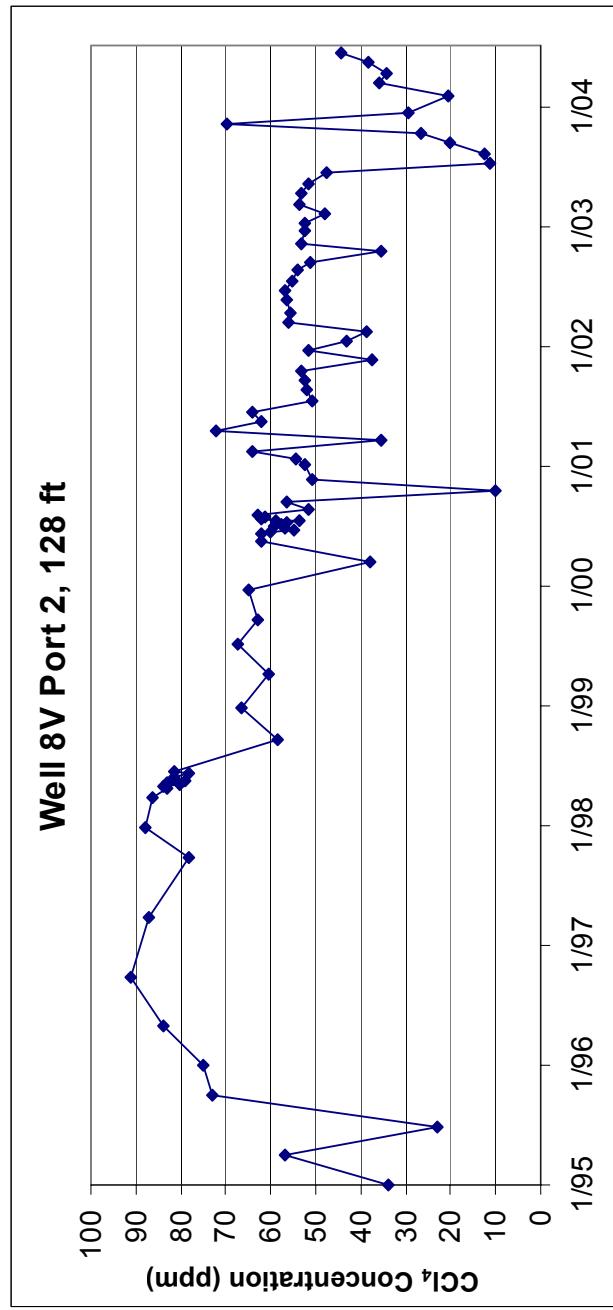


Figure 41. Carbon tetrachloride concentrations (ppmv) for Well Port 8V-2.

Table F-42. Monitoring data for Well 8V-3 from January through June 2004.

Well Port 8V-3	Inside Fence Y	Frequency M	Depth 87.5 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/8/04 9:17 AM	1/8/04 1:52 PM	1.43E+01	4.81E+00	1.96E+00	1.86E+01	4.64E+01	1.01E+04
3/1/04 11:08 AM	3/1/04 3:31 PM	7.33E+00	4.80E+00	1.59E+00	1.18E+01	2.91E+01	1.55E+04
4/6/04 9:07 AM	4/7/04 11:58 AM	5.53E+00	3.76E+00	9.19E-01	5.61E+00	1.56E+01	1.62E+04
6/9/04 12:54 PM	6/10/04 4:51 PM	5.90E+00	3.91E+00	1.40E+00	4.84E+00	1.08E+01	1.75E+04
6/9/04 12:54 PM	6/10/04 4:54 PM	5.91E+00	3.82E+00	1.39E+00	4.91E+00	1.04E+01	1.75E+04

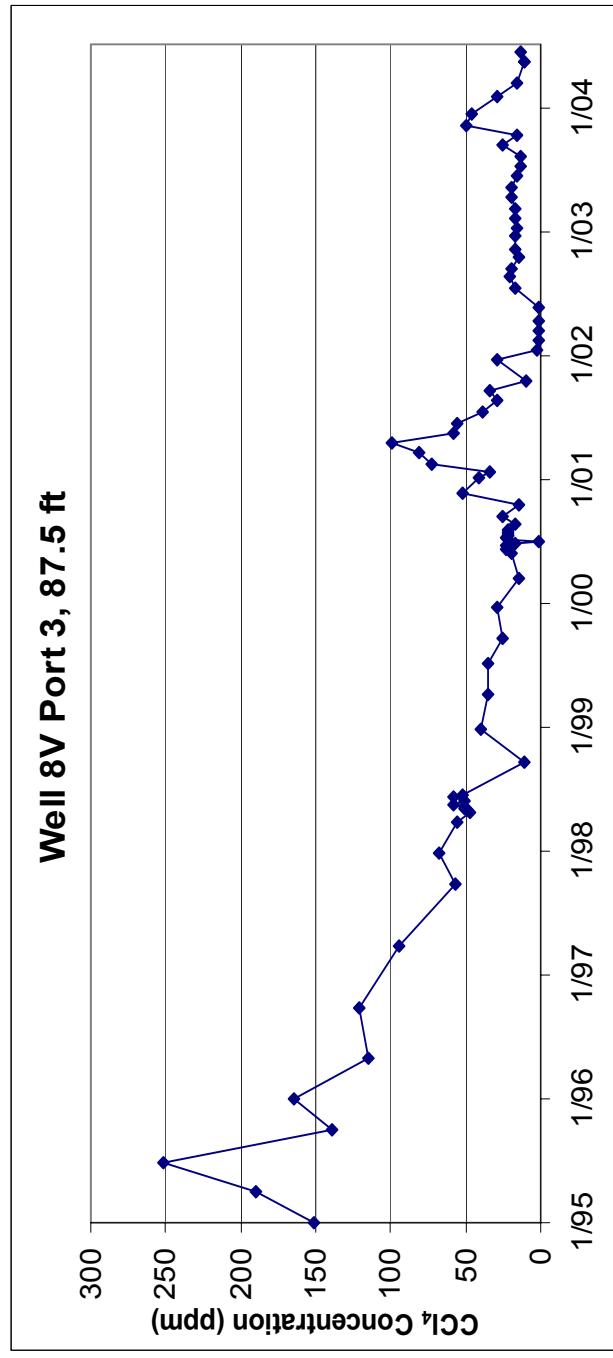


Figure 42. Carbon tetrachloride concentrations (ppmv) for Well Port 8V-3.

Table F-43. Monitoring data for Well 8V-4 from January through June 2004.

Well Port 8V-4	Inside Fence Y	Frequency M	Depth 56.5 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/8/04 9:18 AM	1/8/04 1:55 PM	6.94E+00	2.47E+00	1.61E+00	1.30E+01	2.25E+01	9.51E+03
2/3/04 4:06 PM	2/4/04 1:06 PM	1.08E+01	6.12E+00	1.42E+00	1.87E+01	3.79E+01	9.45E+03
3/1/04 11:11 AM	3/1/04 3:34 PM	6.54E+00	5.54E+00	1.48E+00	1.09E+01	2.44E+01	1.23E+04
4/6/04 9:07 AM	4/7/04 12:00 PM	4.27E+00	3.82E+00	8.33E-01	4.08E+00	8.75E+00	1.62E+04
5/4/04 8:04 AM	5/4/04 1:03 PM	4.08E+00	4.40E+00	1.35E+00	3.92E+00	9.41E+00	1.37E+04
6/9/04 12:55 PM	6/10/04 4:57 PM	4.33E+00	4.04E+00	1.12E+00	2.58E+00	4.84E+00	1.74E+04

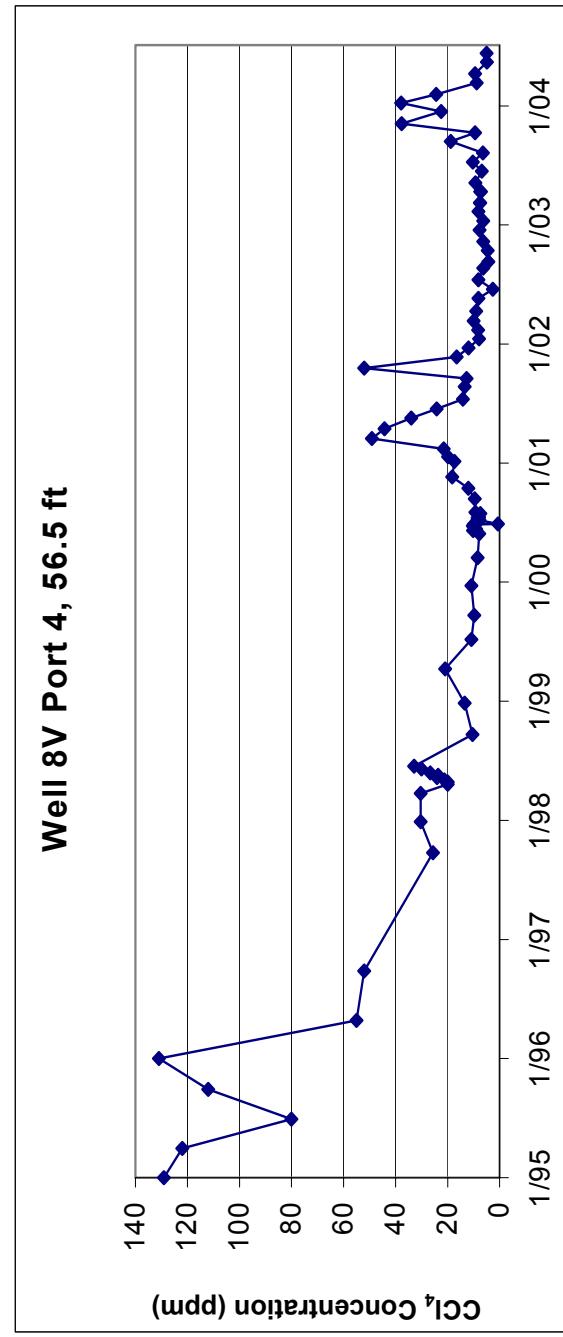


Figure 43. Carbon tetrachloride concentrations (ppmv) for Well Port 8V-4.

Table F-44. Monitoring data for Well 9V-1 from January through June 2004.

Well Port 9V-1	Inside Fence Y	Frequency M	Depth 223 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/8/04 9:45 AM	1/8/04 3:39 PM	1.24E+01	3.91E+00	1.19E+00	2.12E+01	3.80E+01	8.12E+03
2/3/04 2:15 PM	2/4/04 12:30 PM	5.21E+00	2.28E+00	1.19E+00	9.38E+00	2.15E+01	8.22E+03
3/1/04 11:19 AM	3/2/04 12:20 PM	6.58E+00	3.28E+00	1.04E+00	1.00E+01	2.59E+01	8.69E+03
3/1/04 11:19 AM	3/2/04 12:23 PM	6.46E+00	3.22E+00	1.00E+00	9.55E+00	2.51E+01	8.73E+03
4/6/04 9:24 AM	4/7/04 9:25 AM	3.04E+00	1.70E+00	6.85E-01	2.15E+00	5.63E+00	1.50E+04
5/4/04 8:23 AM	5/4/04 1:30 PM	2.68E+00	1.56E+00	8.09E-01	1.93E+00	3.97E+00	1.34E+04
6/7/04 11:35 AM	6/8/04 12:54 PM	4.51E+00	2.75E+00	1.21E+00	3.47E+00	7.15E+00	1.52E+04

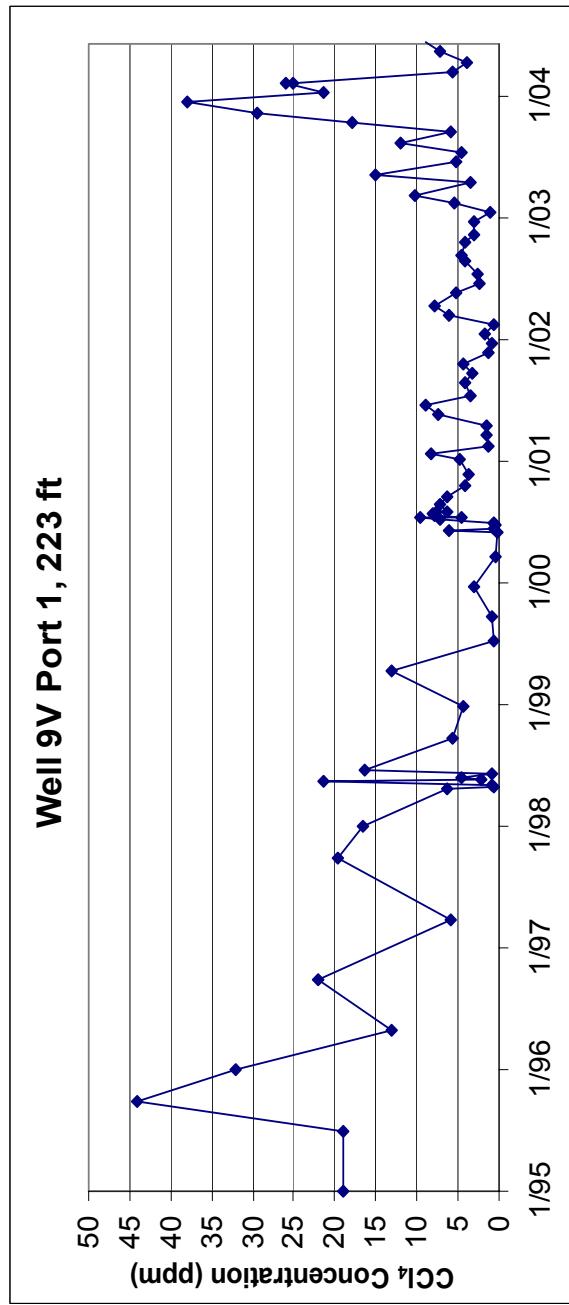


Figure 44. Carbon tetrachloride concentrations (ppmv) for Well Port 9V-1.

Table F-45. Monitoring data for Well 9V-2 from January through June 2004.

Well Port 9V-2	Inside Fence Y	Frequency M	Depth 157 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/8/04 9:46 AM	1/8/04 3:42 PM	1.27E+01	6.09E+00	2.21E+00	1.89E+01	3.57E+01	8.10E+03
2/3/04 2:17 PM	2/4/04 12:33 PM	8.84E+00	6.13E+00	2.17E+00	1.05E+01	2.54E+01	8.05E+03
3/1/04 11:20 AM	3/2/04 12:26 PM	8.79E+00	6.12E+00	1.80E+00	1.04E+01	2.84E+01	8.70E+03
4/6/04 9:24 AM	4/7/04 9:28 AM	2.19E+00	9.51E-01	6.01E-01	1.46E+00	2.93E+00	1.51E+04
5/4/04 8:23 AM	5/4/04 1:33 PM	2.35E+00	1.30E+00	7.50E-01	1.42E+00	2.57E+00	1.34E+04
6/7/04 11:35 AM	6/8/04 12:58 PM	7.14E+00	5.38E+00	1.93E+00	5.80E+00	1.44E+01	1.51E+04

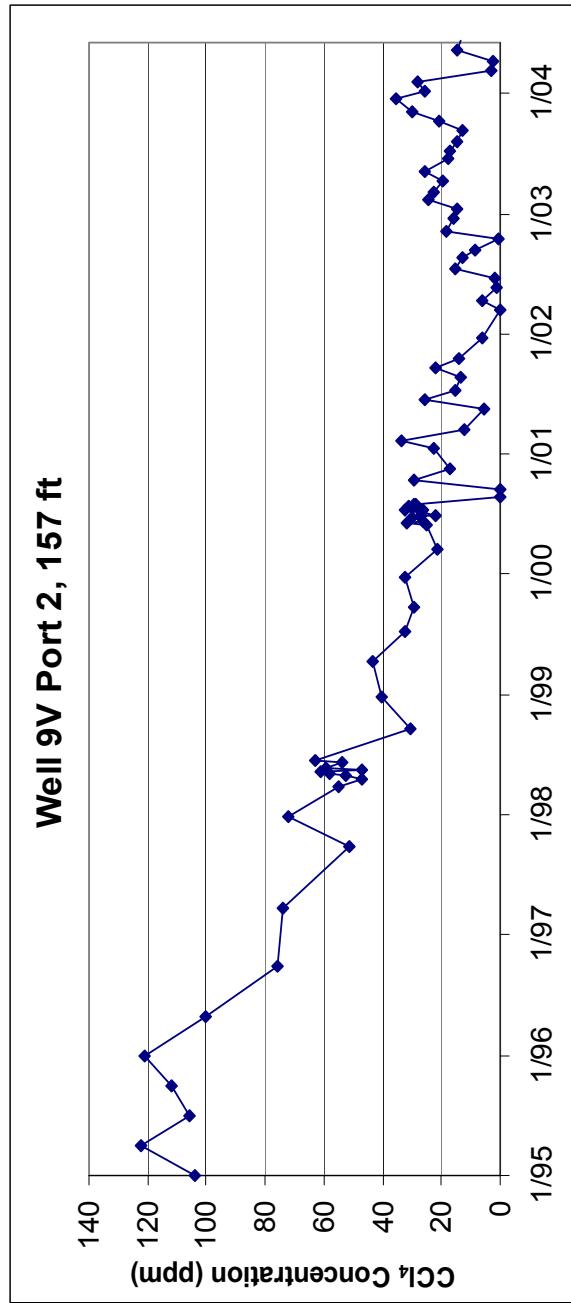


Figure 45. Carbon tetrachloride concentrations (ppmv) for Well Port 9V-2.

Table F-46. Monitoring data for Well 9V-3 from January through June 2004.

Well Port 9V-3	Inside Fence Y	Frequency M	Depth 66.5 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/8/04 9:47 AM	1/8/04 3:45 PM	2.77E+01	6.58E+00	1.08E+00	3.18E+01	7.89E+01	8.83E+03
2/3/04 2:18 PM	2/4/04 12:36 PM	4.45E+00	2.86E+00	1.32E+00	7.02E+00	1.59E+01	7.99E+03
3/1/04 11:20 AM	3/2/04 12:29 PM	4.73E+00	2.35E+00	8.48E-01	8.09E+00	1.92E+01	8.76E+03
4/6/04 9:24 AM	4/7/04 9:31 AM	3.04E+00	1.79E+00	7.08E-01	2.14E+00	5.06E+00	1.51E+04
5/4/04 8:23 AM	5/4/04 1:36 PM	3.91E+00	2.81E+00	1.07E+00	2.31E+00	5.75E+00	1.33E+04
6/7/04 11:35 AM	6/8/04 1:00 PM	5.06E+00	3.43E+00	1.51E+00	4.00E+00	9.02E+00	1.51E+04

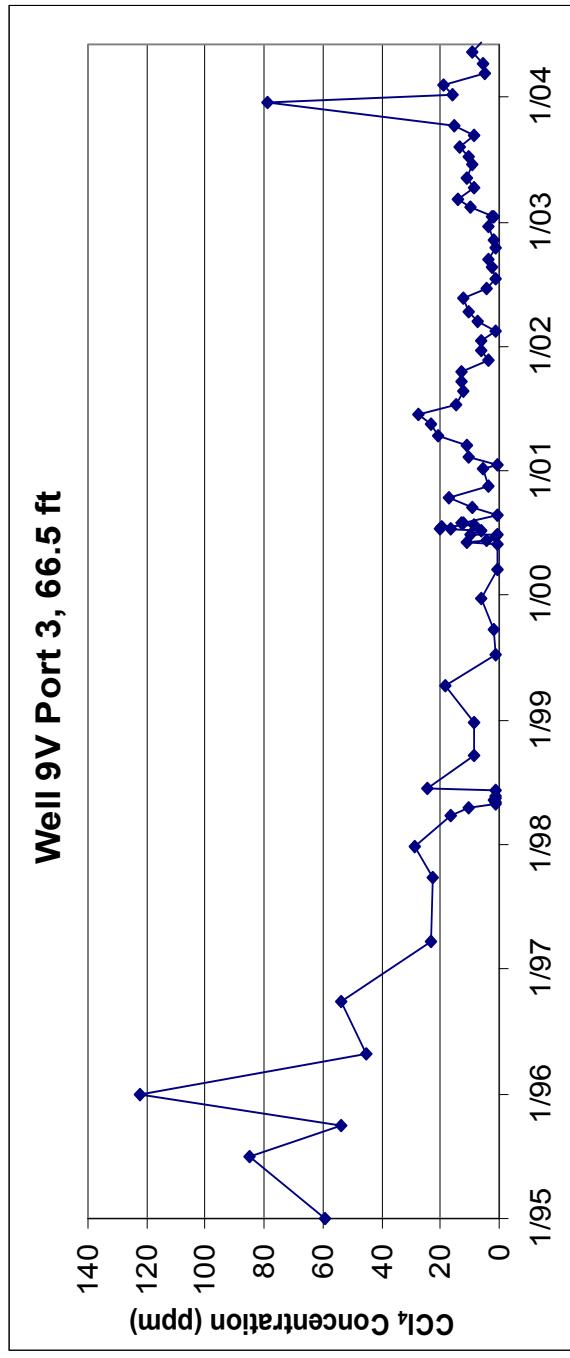


Figure 46. Carbon tetrachloride concentrations (ppmv) for Well Port 9V-3.

Table F-47. Monitoring data for Well 9V-4 from January through June 2004.

Well Port 9V-4	Inside Fence Y	Frequency M	Depth 36.5 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/8/04 9:48 AM	1/8/04 3:48 PM	1.10E+01	4.95E+00	2.19E+00	1.83E+01	3.00E+01	8.24E+03
2/3/04 2:20 PM	2/4/04 12:39 PM	4.50E+00	4.17E+00	2.79E+00	5.50E+00	1.13E+01	8.23E+03
3/1/04 11:21 AM	3/2/04 12:32 PM	5.46E+00	4.83E+00	1.79E+00	7.37E+00	1.67E+01	8.90E+03
3/1/04 11:21 AM	3/2/04 12:35 PM	5.56E+00	4.83E+00	1.82E+00	7.39E+00	1.65E+01	8.90E+03
4/6/04 9:25 AM	4/7/04 9:34 AM	4.26E+00	3.77E+00	1.01E+00	2.46E+00	5.50E+00	1.54E+04
4/6/04 9:25 AM	4/7/04 9:37 AM	4.28E+00	3.82E+00	9.37E-01	2.38E+00	5.55E+00	1.54E+04
5/4/04 8:23 AM	5/4/04 1:39 PM	3.97E+00	4.28E+00	1.56E+00	2.20E+00	4.28E+00	1.35E+04
6/7/04 11:35 AM	6/8/04 1:03 PM	4.49E+00	4.34E+00	3.46E+00	2.50E+00	4.56E+00	1.54E+04

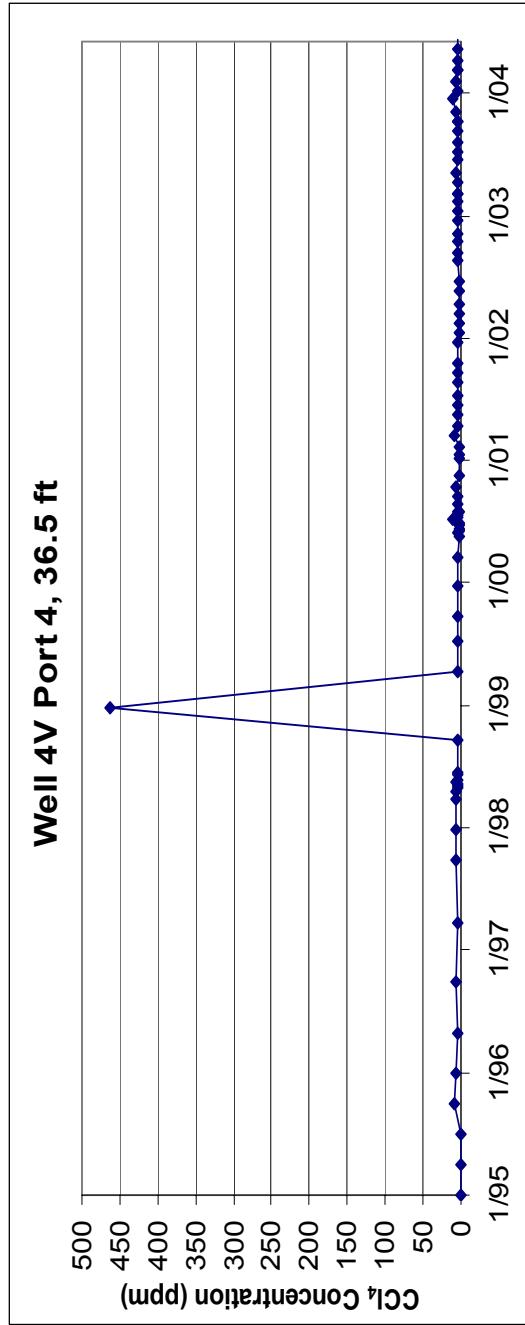


Figure 47. Carbon tetrachloride concentrations (ppmv) for Well Port 9V-4.

Table F-48. Monitoring data for Well 10V-1 from January through June 2004.

Well Port 10V-1	Inside Fence Y	Frequency M	Depth 219 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/12/04 8:17 AM	1/12/04 4:44 PM	1.50E+00	1.33E+00	4.64E-01	6.68E-01	2.16E+00	8.13E+03
2/3/04 2:25 PM	2/4/04 11:51 AM	2.84E+00	1.25E+00	1.20E+00	5.19E+00	1.00E+01	8.04E+03
3/1/04 10:56 AM	3/1/04 3:37 PM	8.49E+00	3.85E+00	1.49E+00	1.40E+01	3.01E+01	1.18E+04
4/6/04 9:17 AM	4/7/04 11:12 AM	2.75E+00	1.15E+00	4.11E-01	1.83E+00	3.89E+00	1.61E+04
4/6/04 9:17 AM	4/7/04 11:15 AM	2.89E+00	1.08E+00	3.53E-01	1.79E+00	3.72E+00	1.61E+04
5/4/04 8:15 AM	5/4/04 1:06 PM	3.35E+00	2.33E+00	9.74E-01	2.45E+00	5.80E+00	1.35E+04

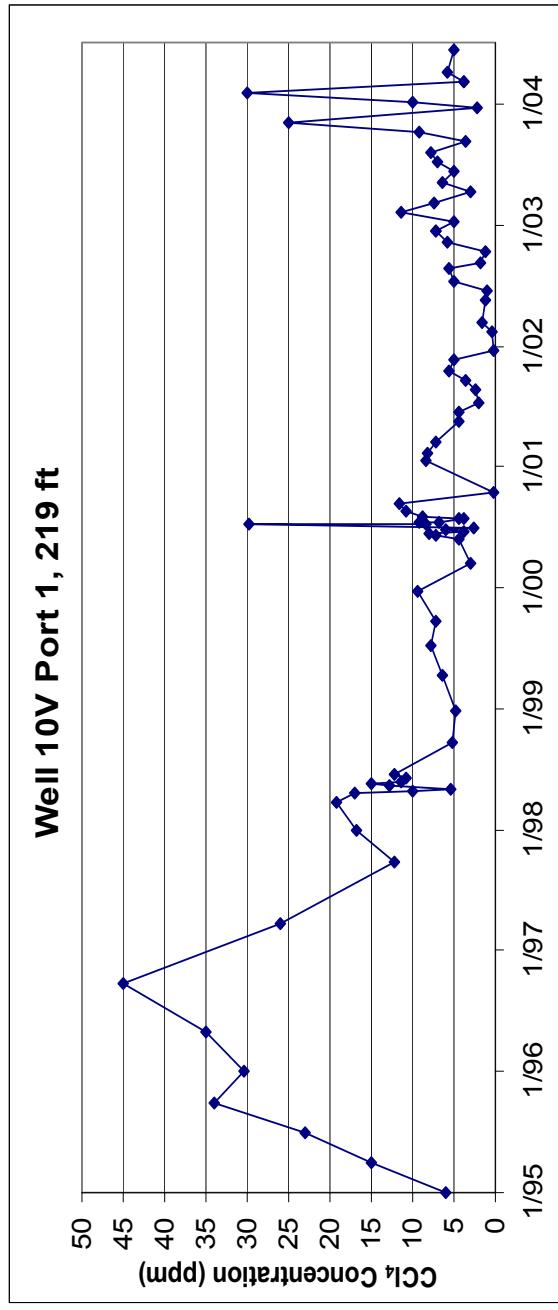


Figure 48. Carbon tetrachloride concentrations (ppm) for Well Port 10V-1.

Table F-49. Monitoring data for Well 10V-2 from January through June 2004.

Well Port 10V-2	Inside Fence Y	Frequency M	Depth 128 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/12/04 8:18 AM	1/12/04 4:47 PM	7.73E-01	5.28E-01	1.85E-01	2.91E-01	5.73E-01	7.53E+03
2/3/04 2:26 PM	2/4/04 11:54 AM	4.82E+00	2.38E+00	1.14E+00	5.52E+00	1.26E+01	7.83E+03
3/1/04 10:57 AM	3/1/04 3:40 PM	8.32E+00	3.78E+00	1.43E+00	1.33E+01	2.76E+01	1.25E+04
4/6/04 9:17 AM	4/7/04 11:18 AM	4.94E+00	2.42E+00	7.47E-01	3.13E+00	8.07E+00	1.58E+04
5/4/04 8:15 AM	5/4/04 1:10 PM	4.60E+00	2.77E+00	1.17E+00	3.20E+00	8.55E+00	1.37E+04
6/9/04 12:55 PM	6/10/04 5:00 PM	5.69E+00	3.66E+00	1.66E+00	3.80E+00	8.92E+00	1.74E+04

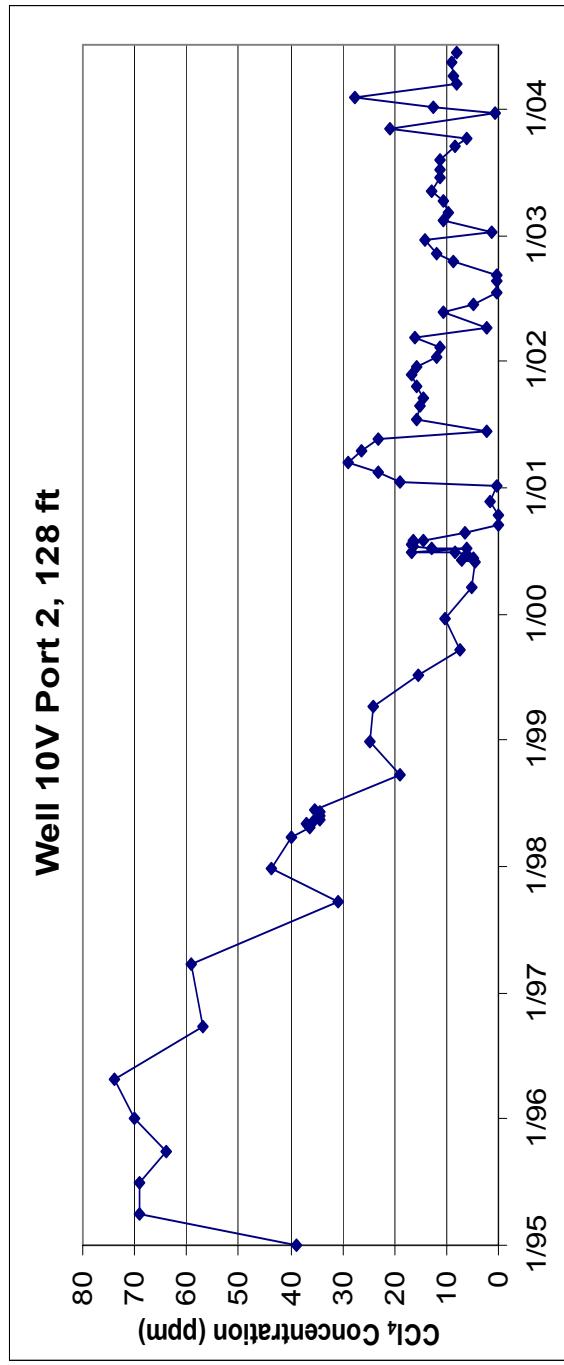


Figure 49. Carbon tetrachloride concentrations (ppmv) for Well Port 10V-2.

Table F-50. Monitoring data for Well 10V-3 from January through June 2004.

Well Port 10V-3	Inside Fence Y	Frequency M	Depth 78.5 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/12/04 8:19 AM	1/12/04 4:50 PM	1.75E+00	1.66E+00	5.04E-01	1.04E+00	2.89E+00	7.58E+03
1/12/04 8:19 AM	1/12/04 4:53 PM	1.75E+00	1.56E+00	5.20E-01	1.03E+00	2.92E+00	7.53E+03
1/12/04 11:12 AM	1/12/04 5:05 PM	2.84E+00	1.80E+00	6.28E-01	2.77E+00	9.66E+00	7.47E+03
2/3/04 2:27 PM	2/4/04 11:57 AM	2.94E+00	1.67E+00	1.05E+00	3.83E+00	7.76E+00	7.83E+03
3/1/04 10:59 AM	3/1/04 3:43 PM	6.32E+00	3.07E+00	1.30E+00	1.12E+01	2.23E+01	1.07E+04
4/6/04 9:18 AM	4/7/04 11:21 AM	3.19E+00	1.56E+00	5.14E-01	2.19E+00	4.59E+00	1.61E+04
5/4/04 8:15 AM	5/4/04 1:12 PM	3.41E+00	2.07E+00	9.83E-01	2.39E+00	5.25E+00	1.34E+04
6/9/04 12:56 PM	6/10/04 5:03 PM	4.24E+00	2.69E+00	1.33E+00	2.35E+00	4.34E+00	1.75E+04

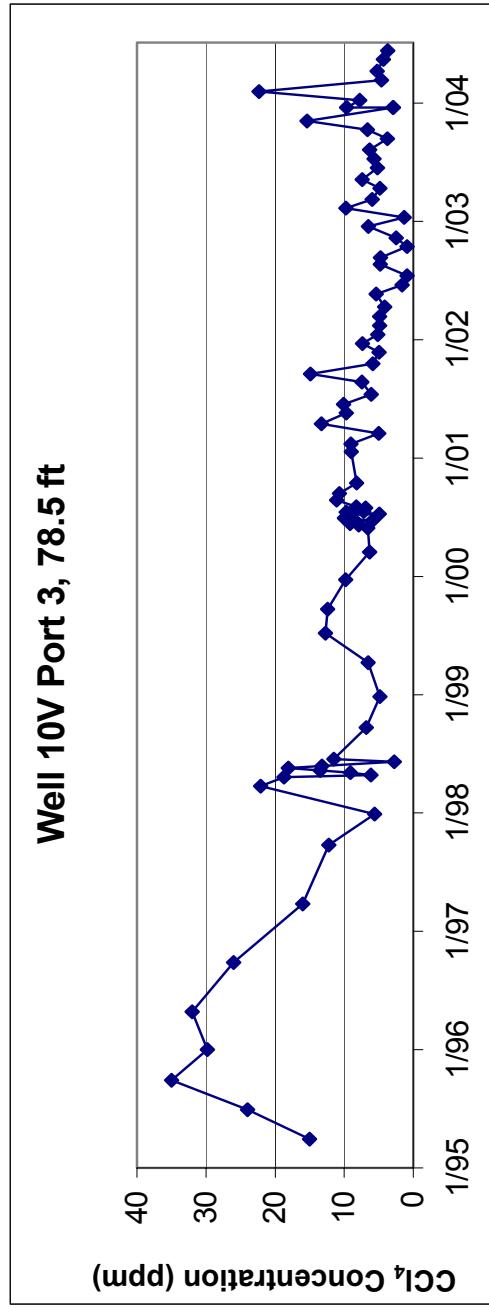


Figure 50. Carbon tetrachloride concentrations (ppmv) for Well Port 10V-3.

Table F-51. Monitoring data for Well 10V-4 from January through June 2004.

Well Port 10V-4	Inside Fence Y	Frequency M	Depth 38.5 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/12/04 8:20 AM	1/12/04 4:56 PM	1.78E+00	1.82E+00	5.28E-01	9.87E-01	2.54E+00	8.05E+03
2/3/04 2:28 PM	2/4/04 12:00 PM	3.12E+00	2.34E+00	1.17E+00	3.53E+00	7.13E+00	7.97E+03
3/1/04 11:00 AM	3/1/04 3:46 PM	4.23E+00	1.87E+00	9.59E-01	7.88E+00	1.40E+01	1.05E+04
4/6/04 9:18 AM	4/7/04 11:24 AM	3.83E+00	2.63E+00	7.38E-01	2.65E+00	5.78E+00	1.61E+04
4/6/04 9:18 AM	4/7/04 11:27 AM	3.95E+00	2.63E+00	7.88E-01	2.70E+00	5.78E+00	1.61E+04
6/9/04 12:57 PM	6/10/04 5:06 PM	4.71E+00	3.63E+00	1.46E+00	2.77E+00	4.69E+00	1.75E+04

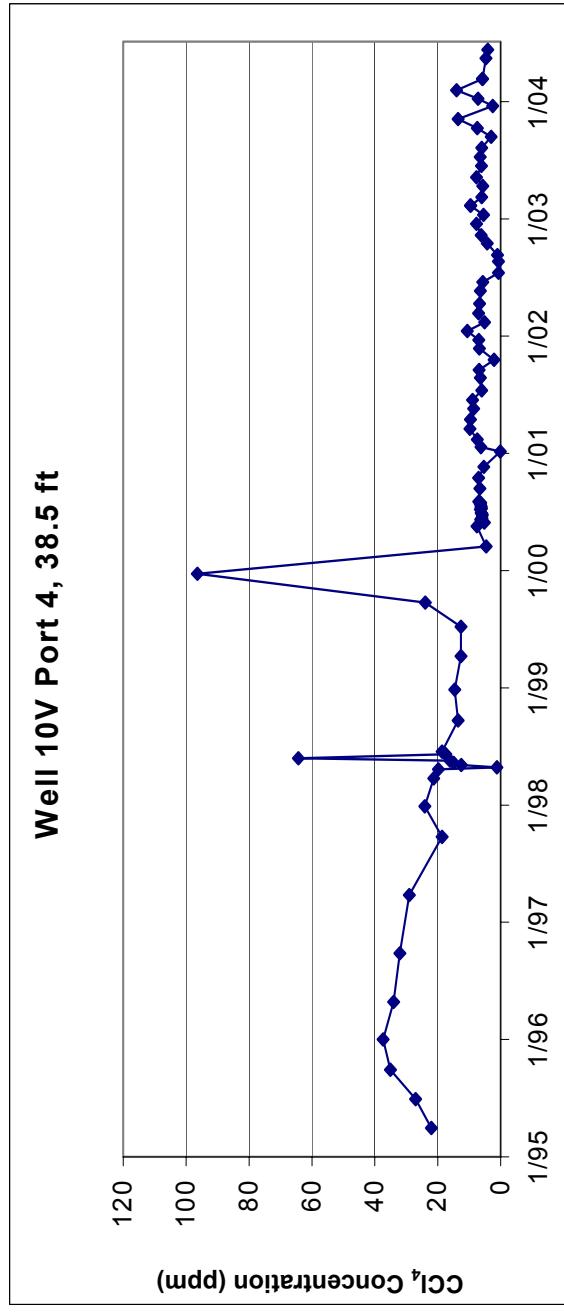


Figure 51. Carbon tetrachloride concentrations (ppmv) for Well Port 10V-4.

Table F-52. Monitoring data for Well 8801-1 from January through June 2004.

Well Port 8801-1	Inside Fence Y	Frequency M	Depth 230 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/8/04 9:10 AM	1/8/04 2:34 PM	8.28E+00	6.20E+00	1.98E+00	1.61E+01	4.02E+01	8.79E+03
2/3/04 3:42 PM	2/4/04 1:51 PM	5.18E+01	1.88E+01	3.86E+00	8.62E+01	2.12E+02	9.04E+03
3/1/04 8:56 AM	3/2/04 1:29 PM	6.71E+01	2.29E+01	3.21E+00	8.02E+01	2.56E+02	8.80E+03
4/5/04 9:06 AM	4/5/04 2:25 PM	4.50E+01	1.36E+01	3.01E+00	7.53E+01	1.41E+02	1.38E+04
4/5/04 9:06 AM	4/5/04 2:28 PM	4.52E+01	1.36E+01	2.93E+00	7.60E+01	1.40E+02	1.38E+04
5/10/04 8:45 AM	5/12/04 10:53 AM	2.48E+01	1.15E+01	3.08E+00	3.98E+01	8.47E+01	1.23E+04

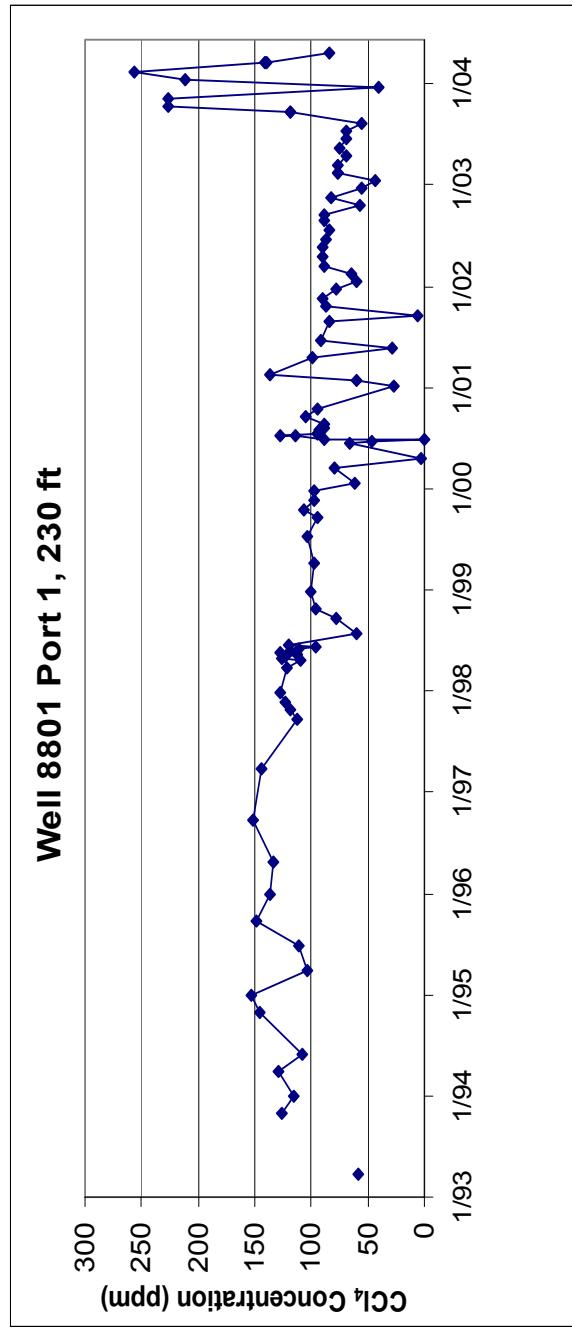


Figure 52. Carbon tetrachloride concentrations (ppmv) for Well Port 8801-1.

Table F-53. Monitoring data for Well 8801-4 from January through June 2004.

Sample Date and Time	Well Port 8801-4	Inside Fence		Frequency M	Depth 78 ft						
		Y				CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/8/04 9:11 AM		1/8/04 2:37 PM	4.64E+02	1.06E+02	1.08E+01	1.75E+02	1.18E+03	9.02E+03			
2/3/04 3:43 PM		2/4/04 1:57 PM	9.89E+02	2.35E+02	3.58E+01	4.41E+02	3.58E+03	9.89E+03			
3/1/04 8:57 AM		3/2/04 1:35 PM	1.03E+03	2.44E+02	3.40E+01	4.76E+02	3.51E+03	9.86E+03			
4/5/04 9:30 AM		4/5/04 2:31 PM	6.68E+02	1.53E+02	1.73E+01	3.58E+02	2.07E+03	1.41E+04			
5/10/04 8:45 AM		5/12/04 10:56 AM	8.83E+01	1.65E+01	1.45E+00	4.95E+01	1.73E+02	1.24E+04			

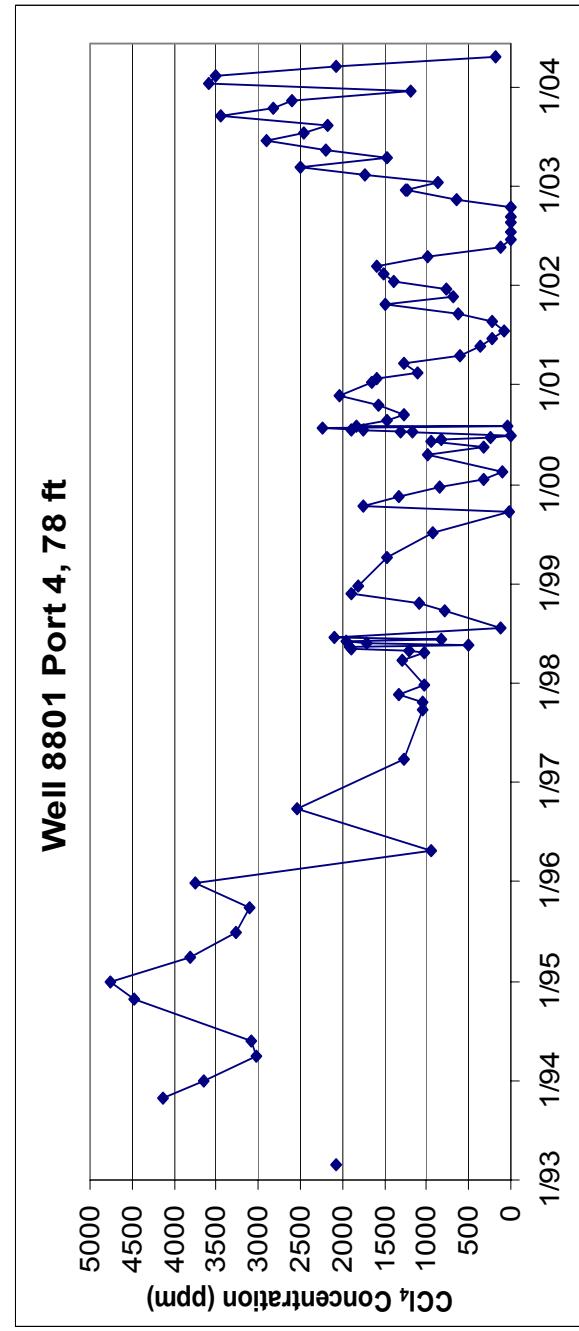


Figure 53. Carbon tetrachloride concentrations (ppmv) for Well Port 8801-4.

Table F-54. Monitoring data for Well 8801-7 from January through June 2004.

Well Port 8801-7	Inside Fence Y	Frequency M	Depth 131 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/8/04 9:12 AM	1/8/04 2:43 PM	1.28E+02	2.53E+01	2.71E+00	1.26E+02	3.43E+02	8.61E+03
1/8/04 9:17 AM	1/8/04 2:52 PM	1.27E+02	2.53E+01	2.53E+00	1.24E+02	3.38E+02	8.66E+03
2/3/04 3:44 PM	2/4/04 2:03 PM	1.33E+02	3.46E+01	4.77E+00	1.70E+02	5.05E+02	9.31E+03
3/1/04 8:59 AM	3/2/04 1:41 PM	5.30E+01	1.91E+01	2.40E+00	6.50E+01	2.27E+02	9.42E+03
4/5/04 9:30 AM	4/5/04 2:37 PM	9.97E+01	2.46E+01	3.38E+00	1.43E+02	3.37E+02	1.38E+04
5/10/04 8:45 AM	5/12/04 10:59 AM	5.71E+01	2.10E+01	3.14E+00	4.29E+01	1.87E+02	1.23E+04

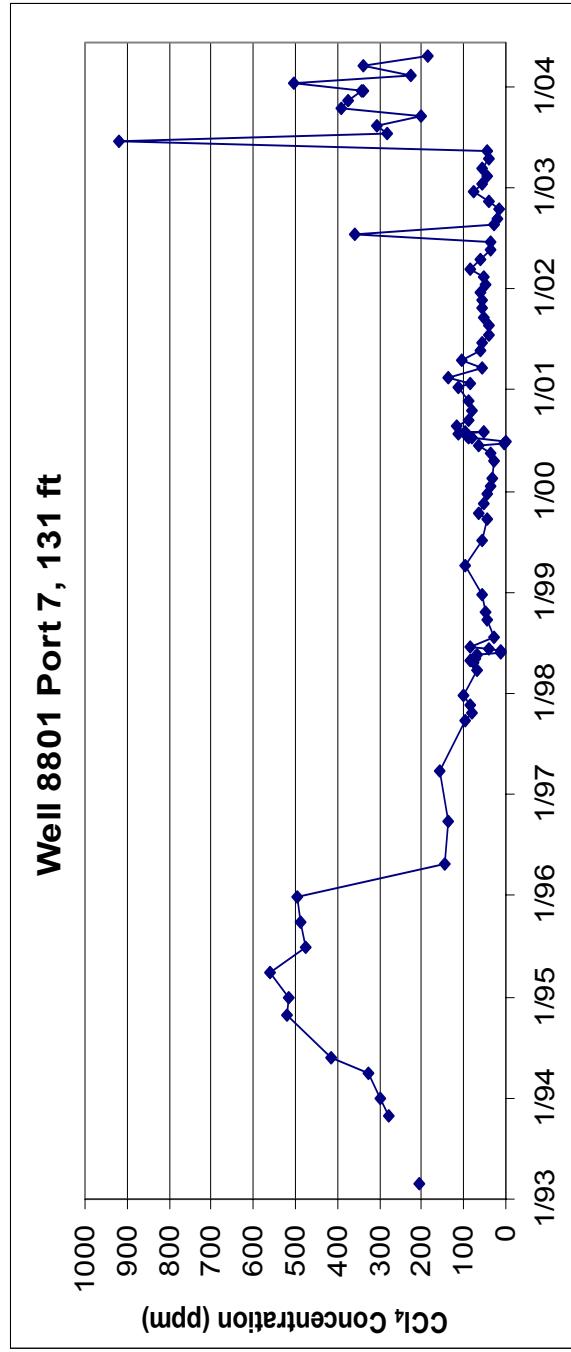


Figure 54. Carbon tetrachloride concentrations (ppmv) for Well Port 8801-7.

Table F-55. Monitoring data for Well 8902-1 from January through June 2004.

Well Port 8902-1	Inside Fence Y	Frequency M	Depth 229 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/8/04 9:17 AM	1/8/04 2:10 PM	2.53E+01	5.83E+00	1.49E+00	3.18E+01	6.95E+01	9.21E+03
2/3/04 3:45 PM	2/4/04 2:09 PM	4.88E+01	1.37E+01	2.70E+00	7.32E+01	1.77E+02	9.24E+03
3/1/04 9:01 AM	3/2/04 10:08 AM	6.13E+01	1.75E+01	4.72E+00	9.29E+01	2.17E+02	8.61E+03
4/5/04 9:25 AM	4/5/04 2:43 PM	1.33E+01	5.61E+00	1.39E+00	2.07E+01	4.81E+01	1.37E+04
5/10/04 9:15 AM	5/12/04 10:38 AM	8.91E+00	5.30E+00	1.58E+00	1.17E+01	2.88E+01	1.22E+04

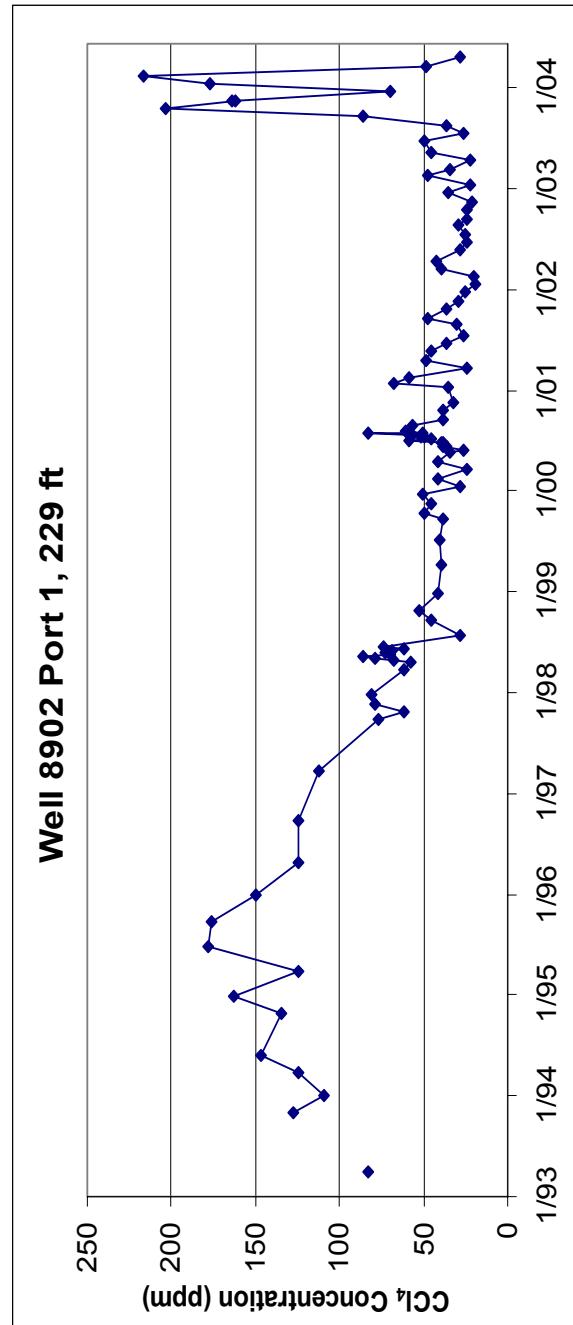


Figure 55. Carbon tetrachloride concentrations (ppmv) for Well Port 8902-1.

Table F-56. Monitoring data for Well 8902-4 from January through June 2004.

Well Port 8902-4	Inside Fence Y	Frequency M	Depth 130 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/8/04 9:17 AM	1/8/04 2:13 PM	2.27E+01	5.15E+00	1.57E+00	2.93E+01	5.93E+01	8.84E+03
2/3/04 3:46 PM	2/4/04 2:12 PM	4.28E+01	1.11E+01	2.93E+00	6.08E+01	1.46E+02	9.12E+03
4/5/04 9:26 AM	4/5/04 2:46 PM	1.70E+01	5.97E+00	1.78E+00	1.85E+01	6.02E+01	1.37E+04
5/10/04 9:15 AM	5/12/04 10:41 AM	1.53E+01	6.67E+00	2.34E+00	1.10E+01	6.04E+01	1.22E+04
5/10/04 9:15 AM	5/12/04 10:45 AM	1.52E+01	6.68E+00	2.28E+00	1.14E+01	6.16E+01	1.23E+04

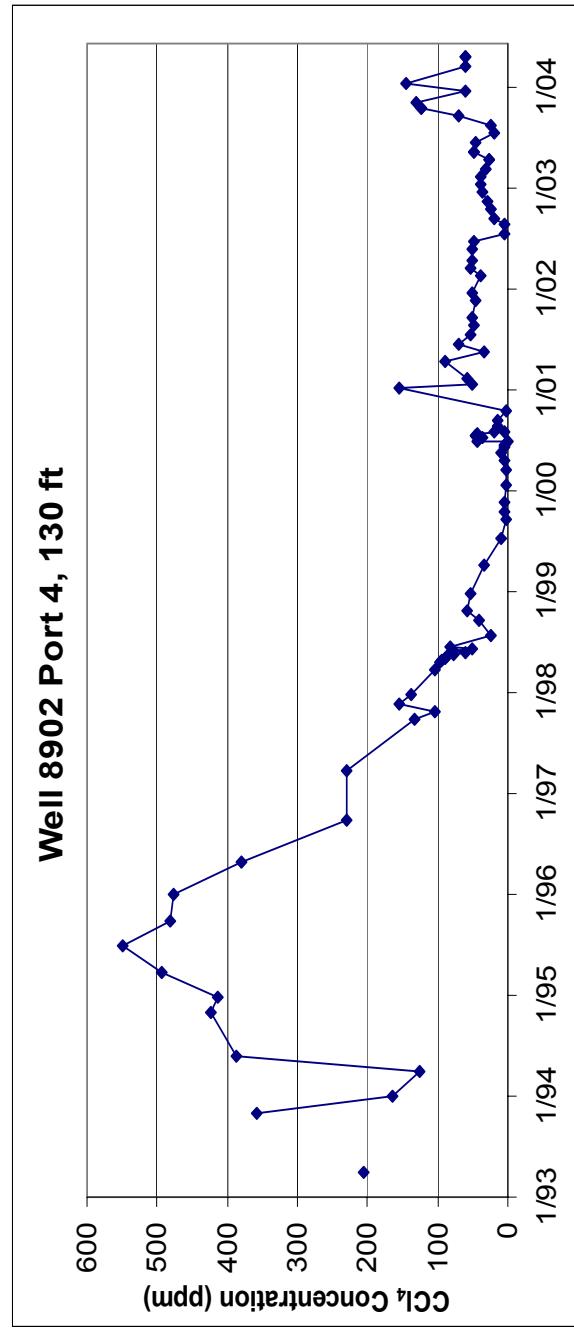


Figure 56. Carbon tetrachloride concentrations (ppmv) for Well Port 8902-4.

Table F-57. Monitoring data for Well 8902-6 from January through June 2004.

Well Port 8902-6	Inside Fence Y	Frequency M	Depth 71 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/8/04 9:18 AM	1/8/04 2:16 PM	6.58E+02	1.82E+02	2.74E+01	2.85E+02	2.36E+03	9.29E+03
1/8/04 9:18 AM	1/8/04 2:22 PM	8.22E+02	1.85E+02	3.32E+01	4.68E+02	2.69E+03	9.06E+03
2/3/04 3:47 PM	2/4/04 2:15 PM	7.53E+02	1.80E+02	2.61E+01	4.17E+02	2.52E+03	9.53E+03
2/3/04 3:47 PM	2/4/04 2:21 PM	8.23E+02	2.54E+02	4.57E+01	4.80E+02	4.03E+03	9.79E+03
3/1/04 9:02 AM	3/2/04 10:21 AM	8.03E+02	2.19E+02	3.63E+01	3.90E+02	3.02E+03	9.24E+03
4/5/04 9:28 AM	4/5/04 2:49 PM	8.23E+02	1.86E+02	2.22E+01	4.91E+02	2.46E+03	1.42E+04
4/5/04 9:28 AM	4/5/04 2:55 PM	2.57E+02	3.75E+01	3.41E+00	2.35E+02	4.68E+02	1.37E+04
5/10/04 9:16 AM	5/12/04 10:47 AM	9.70E+00	2.34E+00	3.82E-01	5.64E+00	1.48E+01	1.24E+04
5/10/04 9:16 AM	5/12/04 10:50 AM	7.23E+01	1.10E+01	9.29E-01	3.73E+01	9.79E+01	1.23E+04

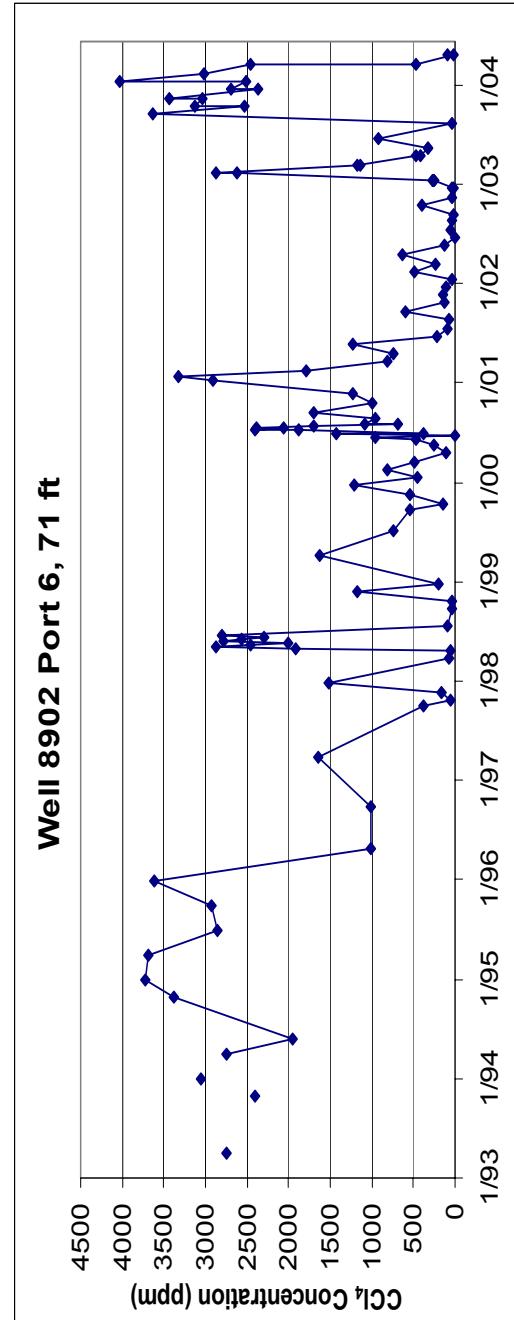


Figure 57. Carbon tetrachloride concentrations (ppmv) for Well Port 8902-6.

Table F-58. Monitoring data for Well 9301-1 from January through June 2004.

Well Port 9301-1	Inside Fence Y	Frequency M	Depth 231 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/6/04 11:00 AM	1/7/04 3:24 PM	4.37E+01	1.31E+01	1.62E+00	3.97E+01	1.50E+02	7.20E+03
1/6/04 11:00 AM	1/7/04 3:27 PM	4.39E+01	1.32E+01	1.58E+00	3.99E+01	1.50E+02	7.22E+03
2/3/04 2:38 PM	2/4/04 12:03 PM	3.89E+01	1.19E+01	3.01E+00	4.82E+01	1.32E+02	9.10E+03
3/1/04 8:52 AM	3/2/04 12:53 PM	7.39E+01	2.17E+01	2.74E+00	6.46E+01	2.37E+02	9.01E+03
4/5/04 9:36 AM	4/5/04 12:43 PM	4.01E+01	8.87E+00	3.02E+00	6.73E+01	1.20E+02	1.40E+04
5/10/04 9:40 AM	5/12/04 11:29 AM	7.78E+00	5.22E+00	1.82E+00	9.05E+00	2.97E+01	1.25E+04

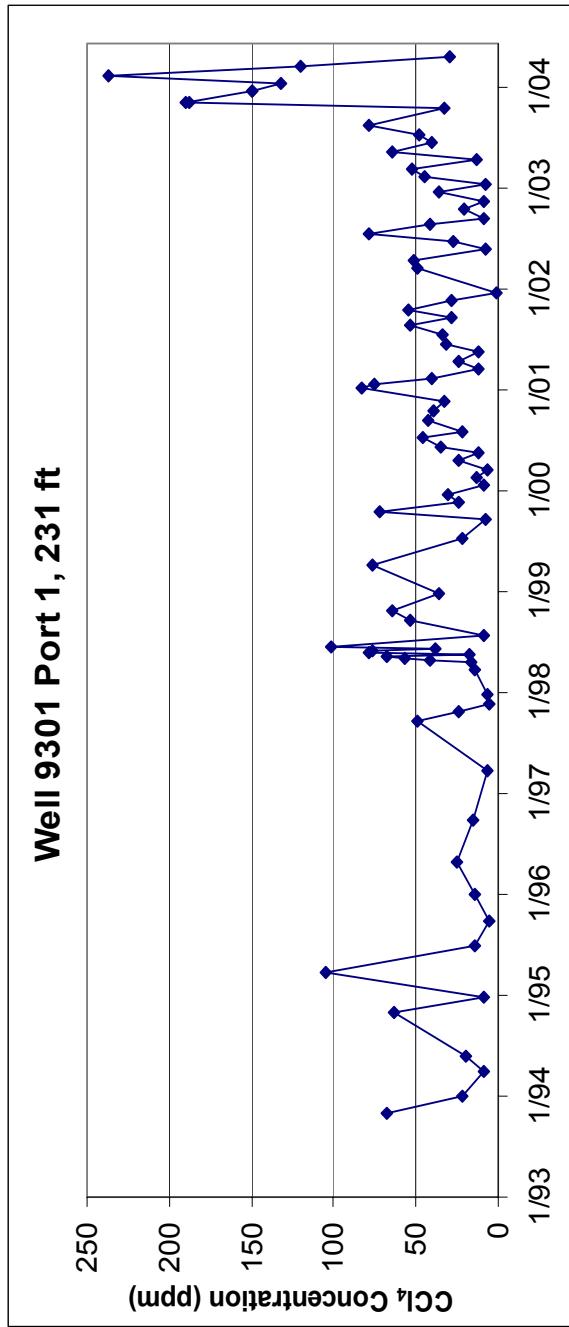


Figure 58. Carbon tetrachloride concentrations (ppmv) for Well Port 9301-1.

Table F-59. Monitoring data for Well 9301-4 from January through June 2004.

Well Port 9301-4	Inside Fence Y	Frequency M	Depth 136 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/6/04 11:01 AM	1/7/04 3:29 PM	2.35E+01	6.22E+00	5.70E-01	2.27E+01	7.74E+01	7.17E+03
2/3/04 3:38 PM	2/4/04 2:28 PM	3.48E+01	1.35E+01	2.45E+00	4.35E+01	1.61E+02	9.01E+03
3/1/04 8:53 AM	3/2/04 12:59 PM	4.53E+01	1.22E+01	1.29E+00	4.50E+01	1.45E+02	8.93E+03
4/5/04 9:37 AM	4/5/04 12:47 PM	2.12E+01	4.05E+00	1.86E+00	4.06E+01	5.88E+01	1.36E+04
4/5/04 9:37 AM	4/5/04 12:49 PM	2.14E+01	4.16E+00	1.93E+00	4.04E+01	5.86E+01	1.37E+04
5/10/04 9:40 AM	5/12/04 11:32 AM	6.87E+00	3.66E+00	6.41E-01	5.19E+00	2.24E+01	1.24E+04

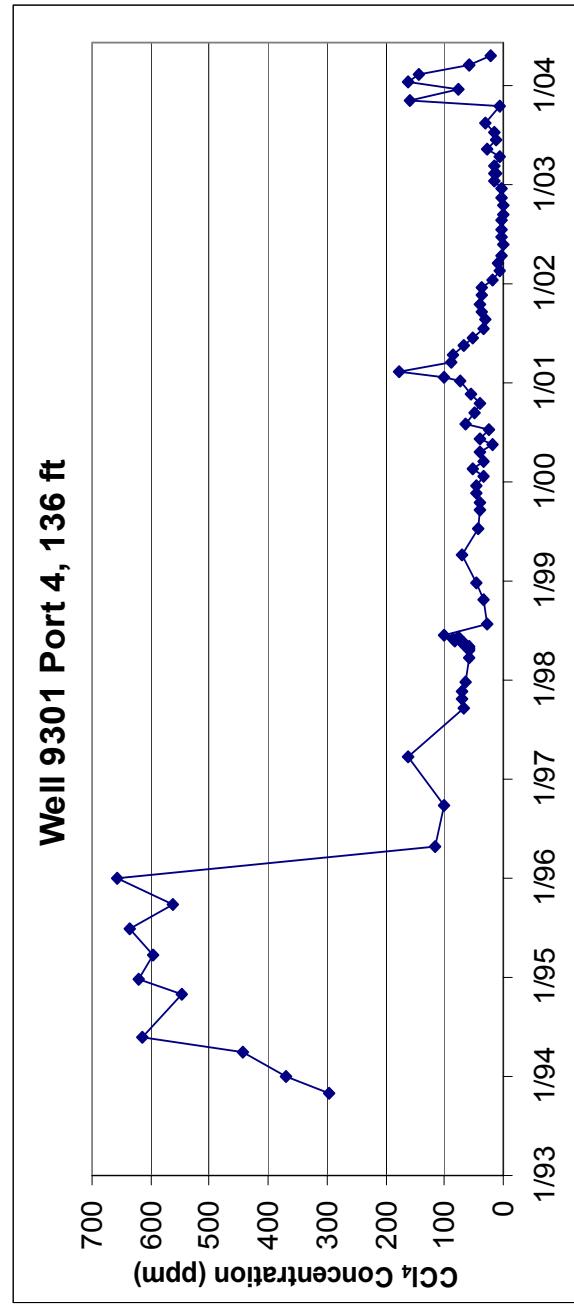


Figure 59. Carbon tetrachloride concentrations (ppmv) for Well Port 9301-4.

Table F-60. Monitoring data for Well 9301-6 from January through June 2004.

Well Port 9301-6	Inside Fence Y	Frequency M	Depth 77 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/6/04 11:02 AM	1/7/04 3:32 PM	3.37E+02	1.20E+02	1.39E+01	1.22E+02	1.33E+03	7.36E+03
2/3/04 2:38 PM	2/4/04 12:06 PM	6.52E+02	2.01E+02	3.03E+01	3.33E+02	2.67E+03	9.91E+03
2/3/04 2:38 PM	2/4/04 12:12 PM	6.51E+02	2.02E+02	3.00E+01	3.35E+02	2.69E+03	9.86E+03
3/1/04 8:54 AM	3/2/04 1:02 PM	4.25E+02	1.31E+02	1.44E+01	1.74E+02	1.46E+03	9.20E+03
4/5/04 9:37 AM	4/5/04 12:52 PM	5.94E+02	1.63E+02	2.28E+01	3.09E+02	2.02E+03	1.44E+04
5/10/04 9:40 AM	5/12/04 11:35 AM	2.02E+02	3.39E+01	1.43E+00	1.17E+02	3.53E+02	1.26E+04

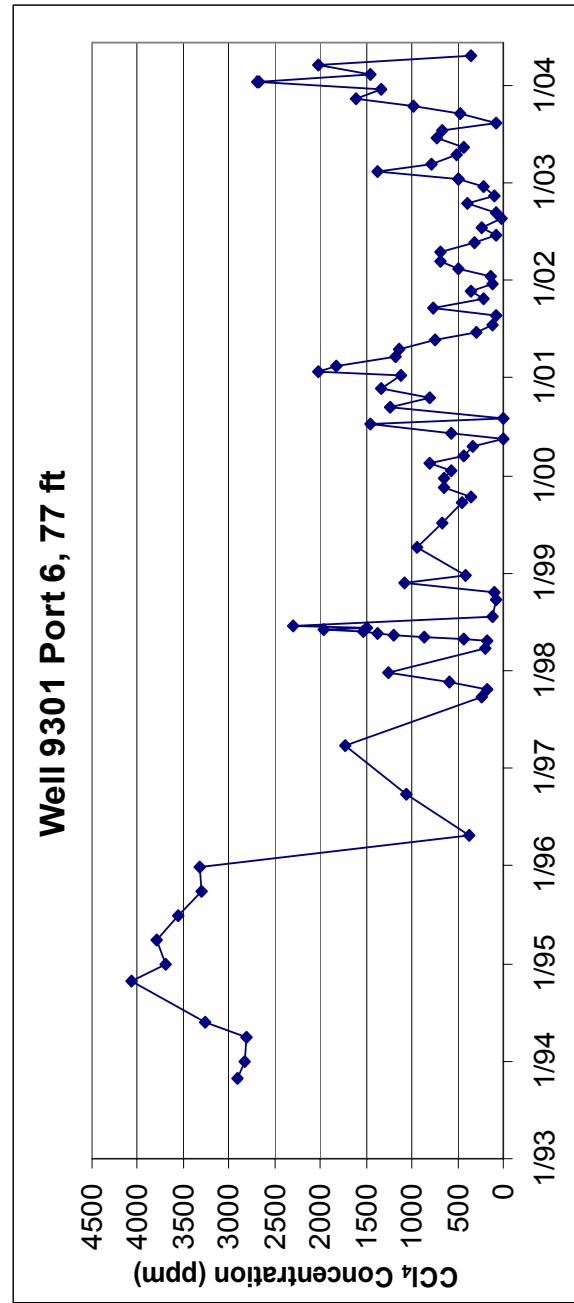


Figure 60. Carbon tetrachloride concentrations (ppmv) for Well Port 9301-6.

Table F-61. Monitoring data for Well 9302-1 from January through June 2004.

Well Port 9302-1	Inside Fence Y	Frequency M	Depth 240 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/6/04 10:54 AM	1/7/04 12:54 PM	6.46E+00	6.98E+00	9.03E+00	1.66E+01	3.31E+01	8.35E+03
2/3/04 3:31 PM	2/4/04 1:39 PM	1.28E+01	9.32E+00	4.76E+00	3.63E+01	7.25E+01	8.83E+03
3/1/04 8:44 AM	3/2/04 12:38 PM	1.73E+01	1.09E+01	4.58E+00	2.74E+01	8.58E+01	1.02E+04
4/5/04 9:42 AM	4/5/04 12:58 PM	5.81E+01	1.74E+01	6.95E+00	9.59E+01	1.94E+02	1.39E+04
5/10/04 9:30 AM	5/12/04 9:56 AM	1.60E+01	9.39E+00	5.37E+00	3.85E+01	6.28E+01	1.21E+04
6/9/04 1:00 PM	6/10/04 5:12 PM	1.04E+01	8.96E+00	5.34E+00	3.93E+01	5.38E+01	1.77E+04

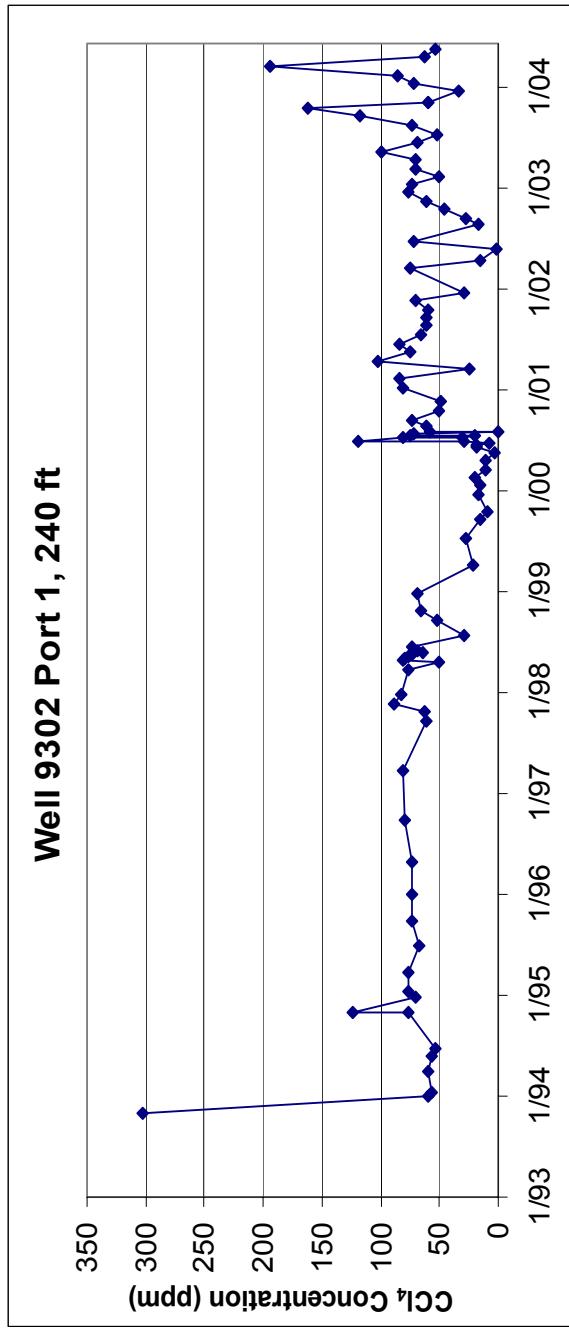


Figure 61. Carbon tetrachloride concentrations (ppmv) for Well Port 9302-1.

Table F-62. Monitoring data for Well 9302-4 from January through June 2004.

Well Port 9302-4	Inside Fence Y	Frequency M	Depth 134 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/6/04 10:55 AM	1/7/04 12:57 PM	1.26E+01	9.24E+00	3.45E+00	1.11E+01	8.06E+01	8.00E+03
2/3/04 3:33 PM	2/4/04 1:42 PM	2.38E+01	1.32E+01	2.44E+00	2.40E+01	1.30E+02	8.96E+03
3/1/04 8:44 AM	3/2/04 12:41 PM	2.29E+01	1.26E+01	2.03E+00	2.01E+01	1.13E+02	8.86E+03
4/5/04 9:43 AM	4/5/04 1:01 PM	4.47E+01	1.77E+01	3.66E+00	5.91E+01	1.81E+02	1.38E+04
4/5/04 9:43 AM	4/5/04 1:04 PM	4.05E+01	1.62E+01	3.29E+00	5.37E+01	1.66E+02	1.39E+04
5/10/04 9:30 AM	5/12/04 9:59 AM	1.06E+01	4.33E+00	1.27E+00	9.87E+00	3.00E+01	1.21E+04

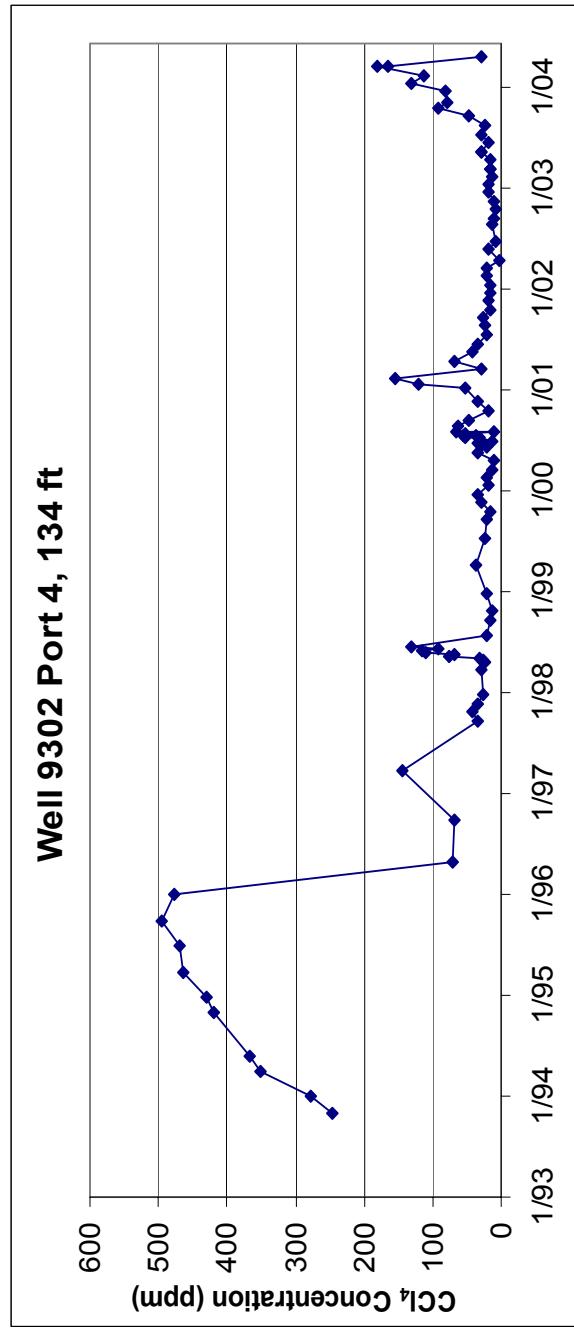


Figure 62. Carbon tetrachloride concentrations (ppmv) for Well Port 9302-4.

Table F-63. Monitoring data for Well 9302-6 from January through June 2004.

Sample Date and Time	Analysis Date and Time	Well Port	Inside Fence	Frequency	Depth
			9302-6	Y	M
1/6/04 10:56 AM	1/7/04 1:00 PM	CHCl ₃	3.12E+02	1.04E+02	1.51E+01
2/3/04 3:34 PM	2/4/04 1:45 PM	TCA	7.34E+02	2.16E+02	8.45E+01
3/1/04 8:45 AM	3/2/04 12:45 PM	(ppmv)	9.00E+02	2.68E+02	9.08E+02
4/5/04 9:43 AM	4/5/04 1:07 PM	PCE	7.66E+02	2.04E+02	2.83E+02
5/10/04 9:30 AM	5/12/04 10:02 AM	TCE	5.32E+01	9.29E+00	2.37E+02
5/10/04 9:30 AM	5/12/04 10:05 AM	CCl ₄	5.37E+01	9.27E+00	3.21E+02
6/9/04 1:05 PM	6/10/04 5:15 PM	H ₂ O	3.55E+01	8.86E+00	3.13E+01

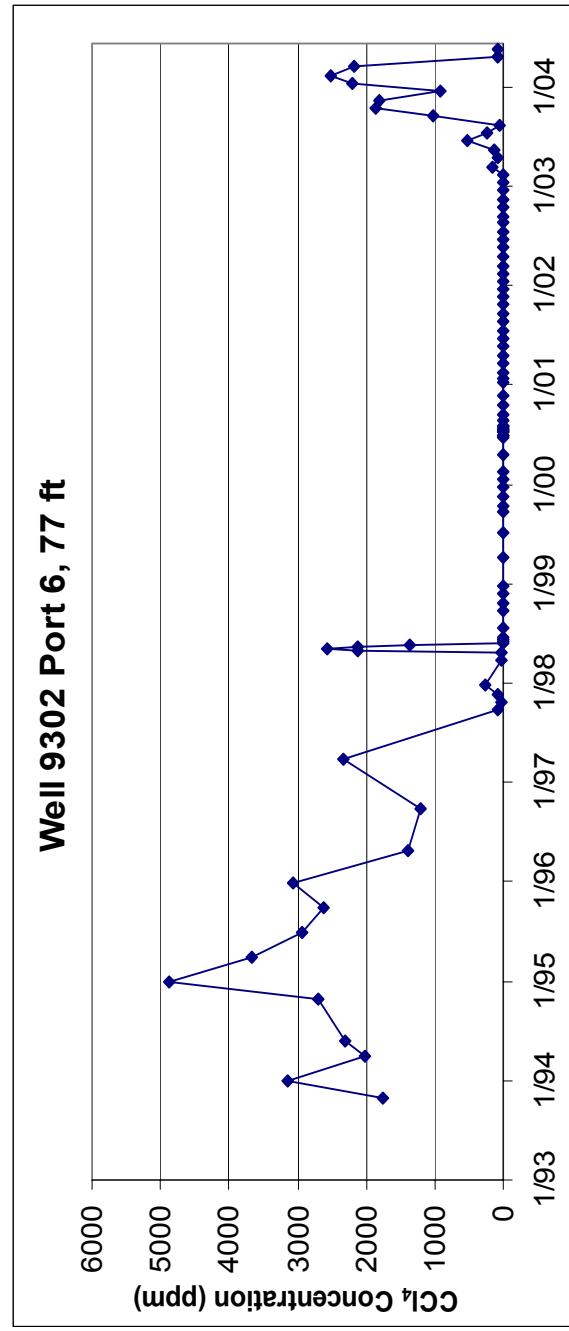


Figure 63. Carbon tetrachloride concentrations (ppmv) for Well Port 9302-6.

Table F-64. Monitoring data for Well D02-3 from January through June 2004.

Well Port D02-3	Inside Fence Y	Frequency M	Depth 69 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/8/04 9:56 AM	1/8/04 3:16 PM	1.23E+02	3.88E+01	5.59E+00	8.12E+01	4.03E+02	8.57E+03
2/3/04 2:08 PM	2/4/04 1:09 PM	1.80E+02	5.55E+01	8.70E+00	1.32E+02	6.16E+02	1.20E+04
3/1/04 9:57 AM	3/2/04 11:36 AM	9.57E+01	3.33E+01	3.81E+00	3.74E+01	2.86E+02	9.03E+03
4/5/04 10:03 AM	4/5/04 2:13 PM	1.37E+02	4.33E+01	6.69E+00	1.06E+02	4.65E+02	1.45E+04
5/5/04 7:46 AM	5/5/04 11:58 AM	1.25E+02	3.96E+01	5.64E+00	7.92E+01	4.11E+02	1.09E+04
6/7/04 11:40 AM	6/8/04 1:06 PM	2.16E+02	6.57E+01	1.24E+01	1.80E+02	7.68E+02	1.54E+04

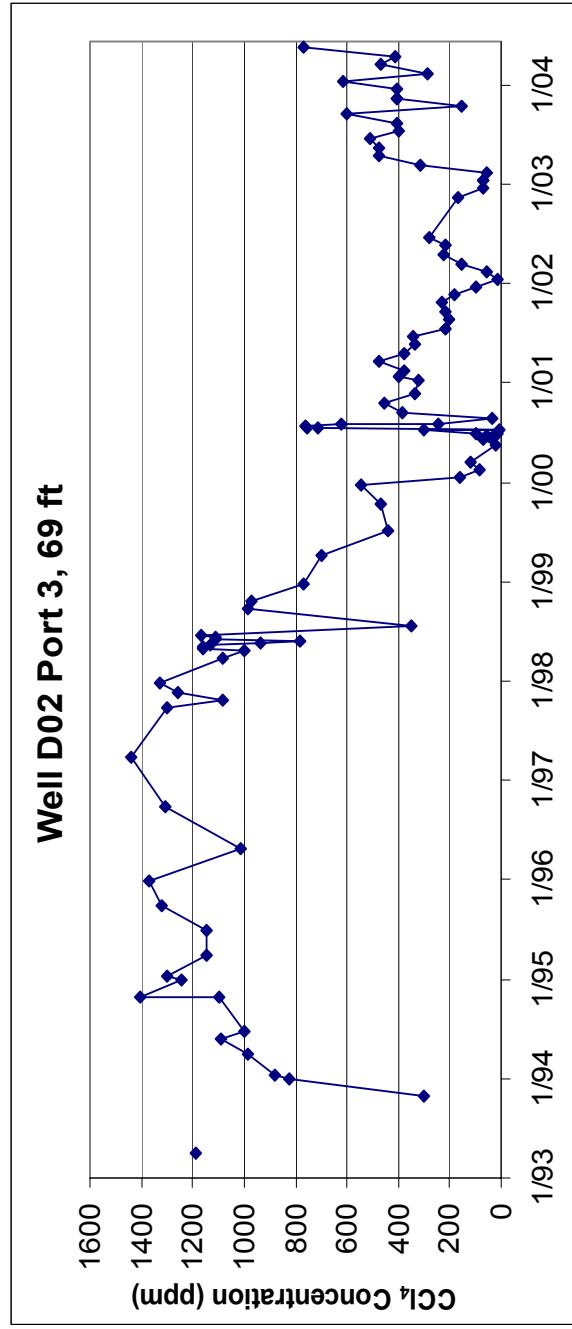


Figure 64. Carbon tetrachloride concentrations (ppmv) for Well Port D02-3.

Table F-65. Monitoring data for Well D02-5 from January through June 2004.

Well Port D02-5	Inside Fence Y	Frequency M	Depth 125 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/8/04 9:56 AM	1/8/04 3:13 PM	1.77E+01	4.43E+00	1.44E+00	2.88E+01	6.29E+01	8.44E+03
2/3/04 2:09 PM	2/4/04 1:15 PM	3.09E+01	1.28E+01	3.17E+00	3.73E+01	1.24E+02	8.68E+03
3/1/04 9:58 AM	3/2/04 11:41 AM	3.16E+01	9.27E+00	8.70E-01	2.99E+01	1.19E+02	8.64E+03
4/5/04 10:06 AM	4/5/04 2:19 PM	3.18E+01	9.21E+00	3.01E+00	5.44E+01	1.29E+02	1.40E+04
5/5/04 8:06 AM	5/5/04 12:04 PM	1.74E+01	6.05E+00	1.72E+00	2.31E+01	5.60E+01	1.11E+04
6/7/04 11:40 AM	6/8/04 1:09 PM	1.15E+01	5.38E+00	1.56E+00	1.23E+01	3.60E+01	1.48E+04
6/7/04 11:40 AM	6/8/04 1:12 PM	1.02E+01	4.90E+00	1.34E+00	9.28E+00	2.74E+01	1.48E+04

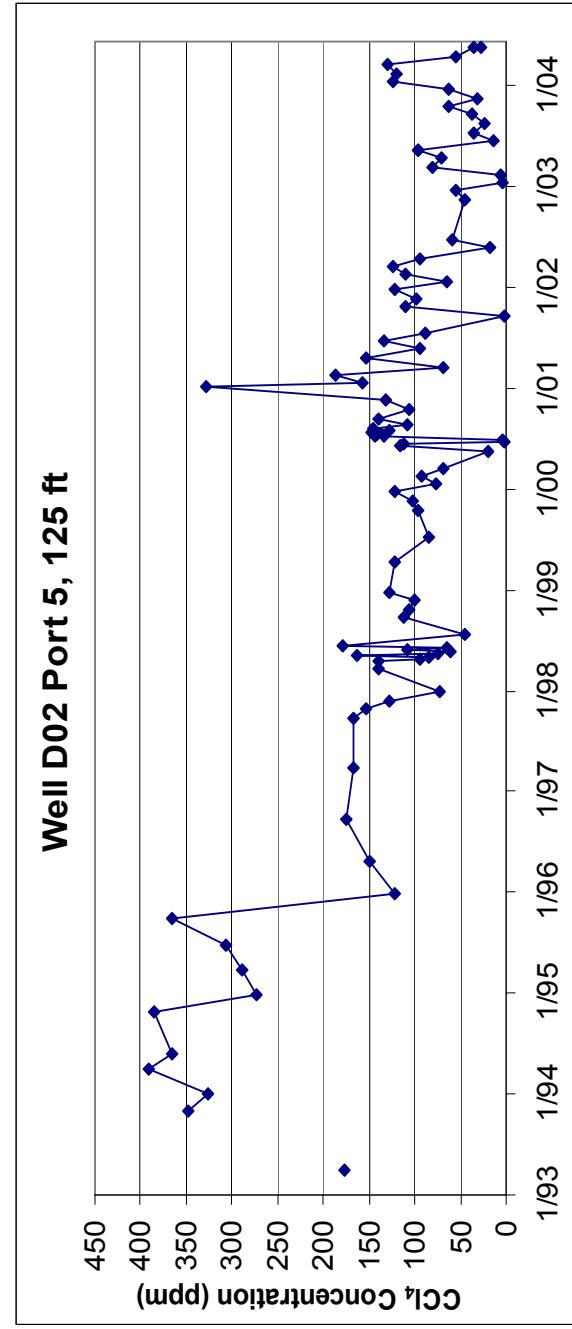


Figure 65. Carbon tetrachloride concentrations (ppmv) for Well Port D02-5.

Table F-66. Monitoring data for Well D02-8 from January through June 2004.

Well Port D02-8	Inside Fence Y	Frequency M	Depth 231 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/8/04 9:57 AM	1/8/04 3:22 PM	1.26E+01	3.68E+00	1.51E+00	2.25E+01	4.84E+01	8.20E+03
2/3/04 2:10 PM	2/4/04 1:18 PM	2.61E+01	1.69E+01	4.76E+00	3.48E+01	1.54E+02	8.34E+03
3/1/04 9:58 AM	3/2/04 11:44 AM	1.71E+01	5.11E+00	7.19E-01	2.10E+01	6.65E+01	8.54E+03
4/5/04 10:06 AM	4/5/04 2:22 PM	3.64E+01	1.84E+01	5.15E+00	5.36E+01	1.83E+02	1.38E+04
5/5/04 8:06 AM	5/5/04 12:07 PM	2.73E+01	1.69E+01	4.30E+00	3.11E+01	1.42E+02	1.09E+04
6/7/04 11:40 AM	6/8/04 1:16 PM	2.45E+01	1.76E+01	4.44E+00	2.82E+01	1.51E+02	1.51E+04

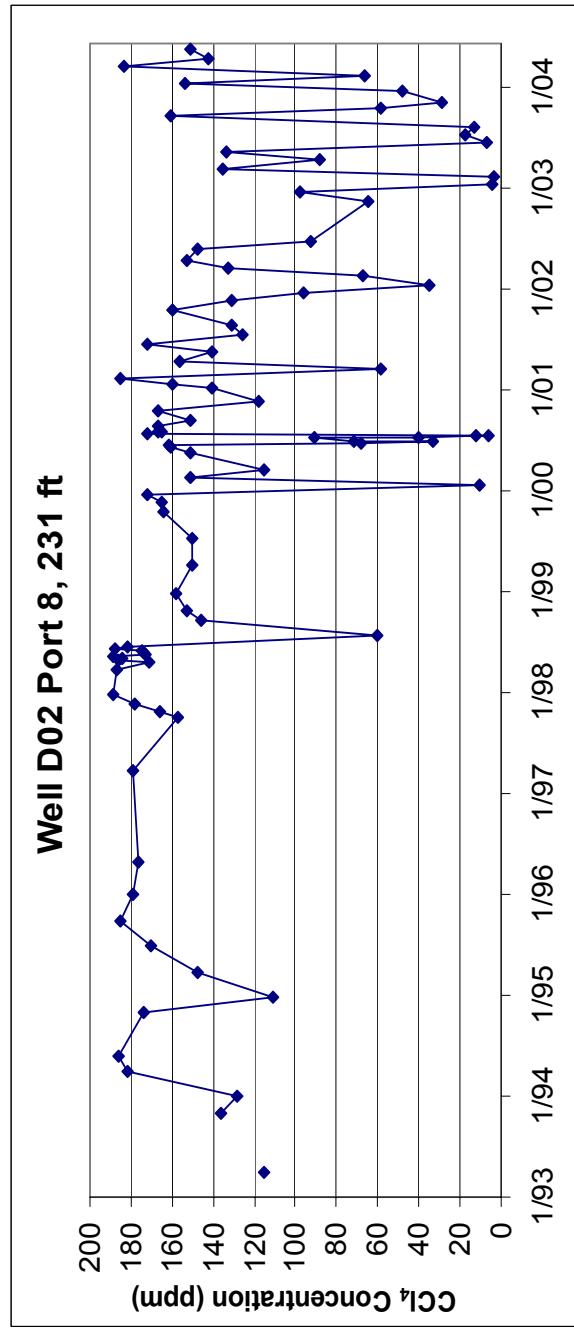


Figure 66. Carbon tetrachloride concentrations (ppmv) for Well Port D02-8.

Table F-67. Monitoring data for Well DE1-1 from January through June 2004.

Well Port DE1-1	Inside Fence Y	Frequency M	Depth 292 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/8/04 10:28 AM	1/8/04 3:01 PM	6.37E+00	2.58E+00	9.53E-01	1.19E+01	2.17E+01	1.63E+04
2/3/04 4:16 PM	2/4/04 12:42 PM	1.24E+01	4.32E+00	1.27E+00	2.04E+01	4.80E+01	8.99E+03
3/1/04 9:14 AM	3/2/04 10:53 AM	5.46E+01	1.37E+01	2.19E+00	7.80E+01	1.88E+02	8.50E+03
3/1/04 9:14 AM	3/2/04 10:56 AM	5.50E+01	1.39E+01	2.12E+00	7.91E+01	1.90E+02	8.37E+03
4/6/04 11:56 AM	4/7/04 9:13 AM	3.62E+00	2.43E+00	9.26E-01	3.03E+00	8.35E+00	1.51E+04
5/10/04 9:10 AM	5/12/04 10:20 AM	6.93E+00	2.76E+00	9.14E-01	7.51E+00	1.56E+01	1.20E+04

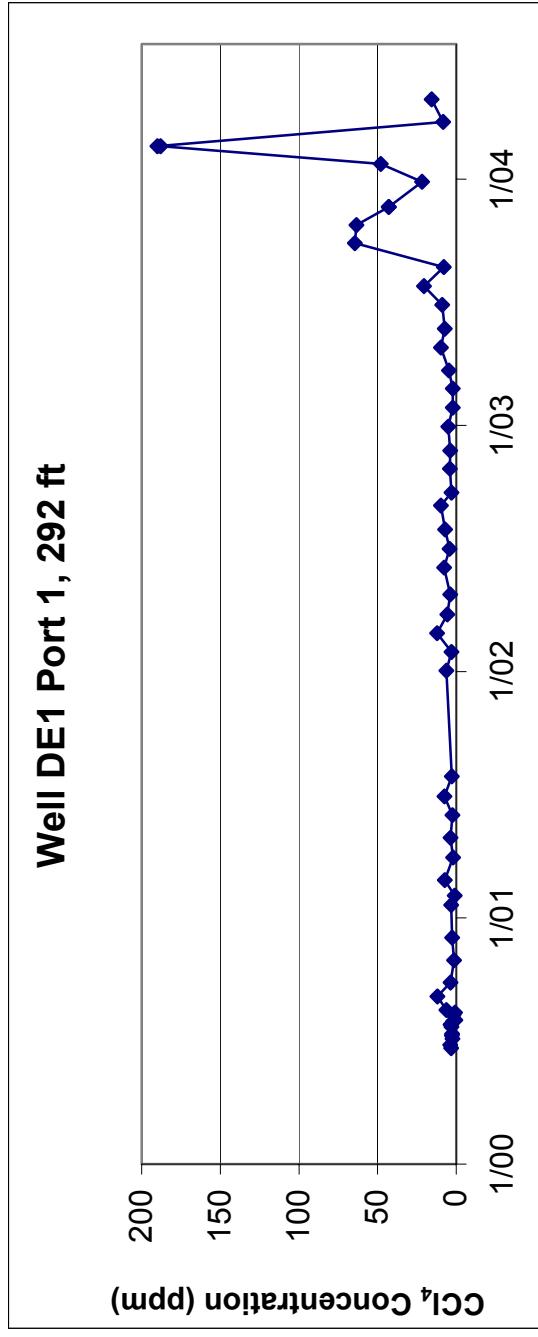


Figure 67. Carbon tetrachloride concentrations (ppmv) for Well Port DE1-1.

Table F-68. Monitoring data for Well DE1-2 from January through June 2004.

Well Port DE1-2	Inside Fence Y	Frequency M	Depth 343 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/8/04 10:28 AM	1/8/04 3:04 PM	5.06E+00	1.74E+00	7.82E-01	9.92E+00	1.81E+01	1.08E+04
2/3/04 4:17 PM	2/4/04 12:45 PM	1.04E+01	3.38E+00	1.02E+00	1.74E+01	3.99E+01	8.93E+03
3/1/04 9:14 AM	3/2/04 10:59 AM	3.33E+01	8.34E+00	1.69E+00	5.49E+01	1.16E+02	8.36E+03
5/10/04 9:11 AM	5/12/04 10:23 AM	3.15E+00	1.31E+00	5.48E-01	2.34E+00	4.08E+00	1.22E+04
5/10/04 9:11 AM	5/12/04 10:26 AM	2.95E+00	1.28E+00	4.64E-01	1.99E+00	3.50E+00	1.24E+04

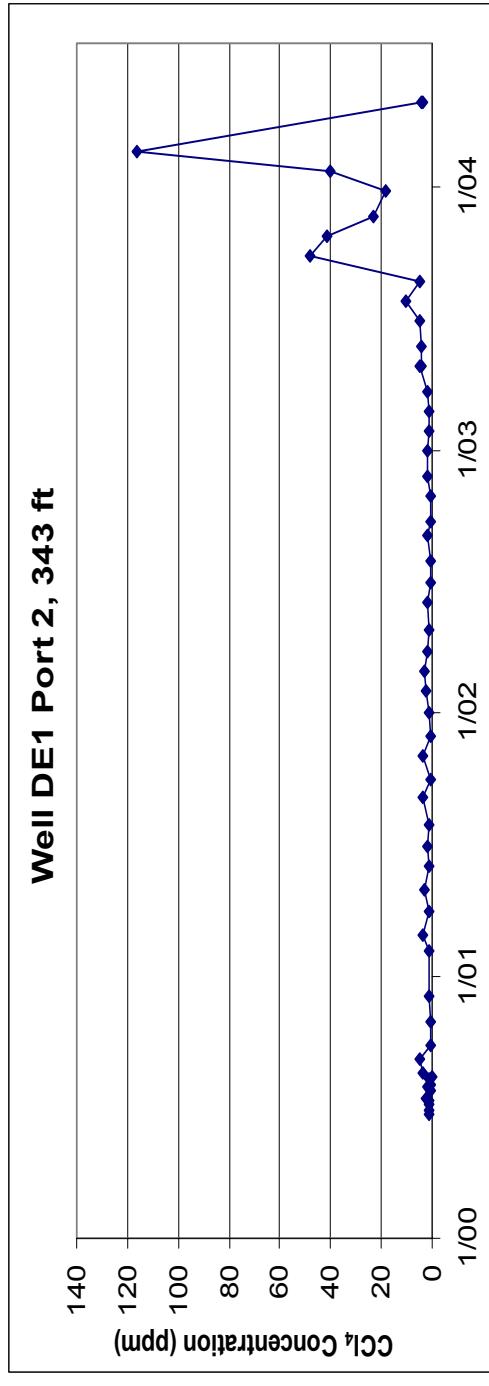


Figure 68. Carbon tetrachloride concentrations (ppmv) for Well Port DE1-2.

Table F-69. Monitoring data for Well DE1-3 from January through June 2004.

Well Port DE1-3	Inside Fence Y	Frequency M	Depth 375 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/8/04 10:29 AM	1/8/04 3:07 PM	3.71E+00	1.22E+00	5.21E-01	7.68E+00	1.26E+01	1.26E+04
2/3/04 4:19 PM	2/4/04 12:48 PM	7.69E+00	2.38E+00	8.41E-01	1.35E+01	2.98E+01	8.78E+03
3/1/04 9:15 AM	3/2/04 11:02 AM	2.68E+01	6.75E+00	1.39E+00	4.35E+01	9.56E+01	8.71E+03
4/6/04 11:57 AM	4/7/04 9:16 AM	2.40E+00	1.20E+00	5.65E-01	1.41E+00	3.25E+00	1.52E+04
5/10/04 9:11 AM	5/12/04 10:29 AM	7.71E+00	2.85E+00	7.47E-01	5.17E+01	1.76E+01	1.22E+04

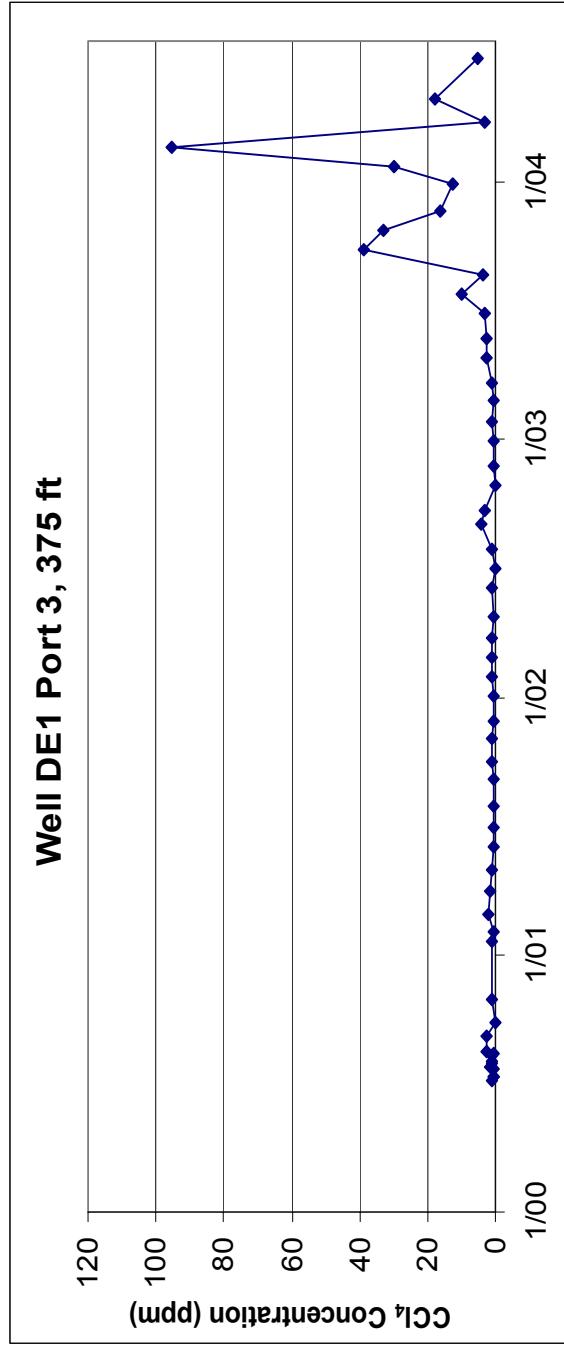


Figure 69. Carbon tetrachloride concentrations (ppmv) for Well Port DE1-3.

Table F-70. Monitoring data for Well DE1-4 from January through June 2004.

Well Port DE1-4	Inside Fence Y	Frequency M	Depth 396 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/8/04 10:31 AM	1/8/04 3:10 PM	4.17E+00	1.16E+00	5.80E-01	8.09E+00	1.40E+01	8.89E+03
2/3/04 4:20 PM	2/4/04 12:51 PM	8.12E+00	2.44E+00	8.14E-01	1.39E+01	3.06E+01	8.96E+03
3/1/04 9:15 AM	3/2/04 11:05 AM	2.39E+01	5.70E+00	1.33E+00	4.06E+01	8.27E+01	8.17E+03
4/6/04 11:58 AM	4/7/04 9:19 AM	2.77E+00	1.23E+00	5.32E-01	1.56E+00	3.47E+00	1.53E+04
5/10/04 9:11 AM	5/12/04 10:32 AM	4.93E+00	1.42E+00	5.18E-01	4.81E+00	9.01E+00	1.22E+04

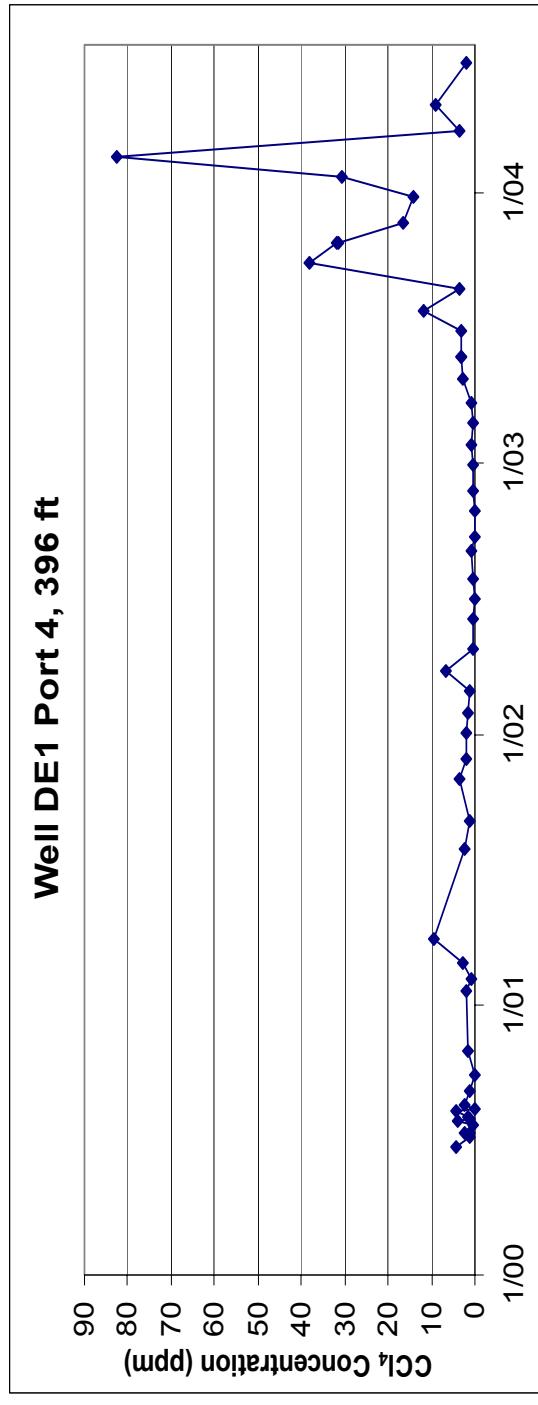


Figure 70. Carbon tetrachloride concentrations (ppmv) for Well Port DE1-4.

Table F-71. Monitoring data for Well DE3-1 from January through June 2004.

Well Port DE3-1	Inside Fence Y	Frequency M	Depth 481 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/7/04 9:35 AM	1/7/04 2:03 PM	6.06E+00	3.32E+00	1.20E+00	9.97E+00	3.25E+01	9.19E+03
2/3/04 8:53 AM	2/3/04 12:59 PM	6.22E+00	2.67E+00	1.48E+00	9.99E+00	2.20E+01	1.02E+04
3/1/04 9:37 AM	3/2/04 1:14 PM	5.04E+00	2.88E+00	3.04E-01	2.73E+00	1.64E+01	8.86E+03
4/5/04 10:20 AM	4/5/04 1:19 PM	5.48E+00	2.18E+00	1.38E+00	9.97E+00	1.78E+01	1.60E+04
5/5/04 7:47 AM	5/5/04 11:28 AM	3.31E+00	1.61E+00	7.44E-01	3.27E+00	5.86E+00	1.11E+04
6/7/04 11:45 AM	6/8/04 1:24 PM	3.28E+00	1.66E+00	5.87E-01	1.48E+00	2.95E+00	1.47E+04

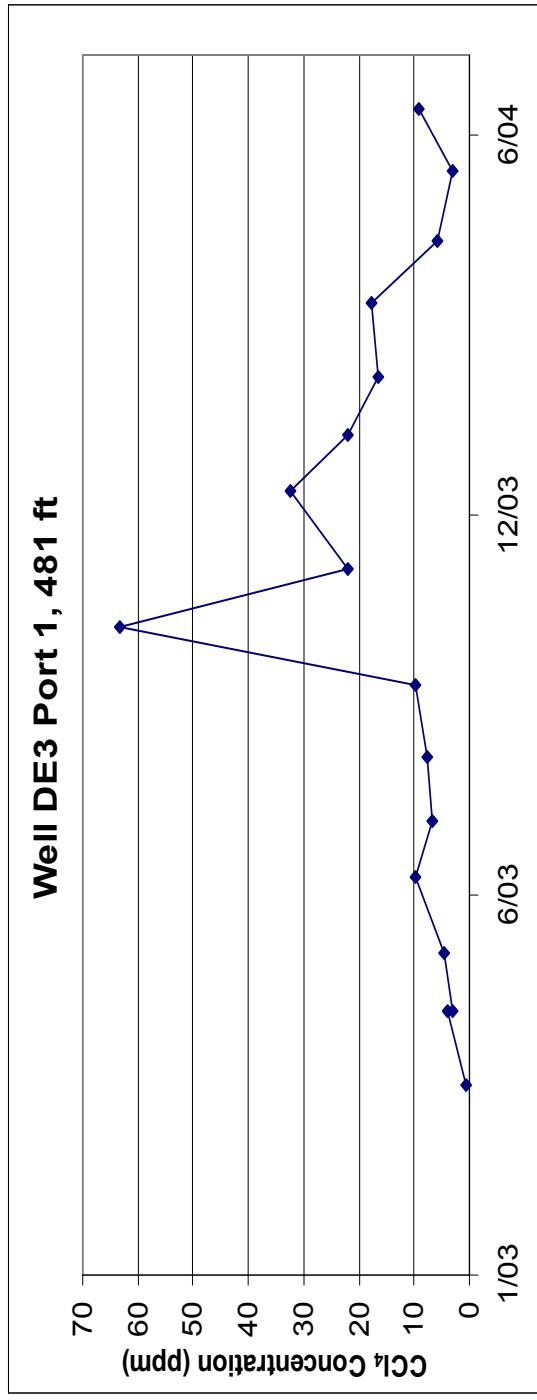


Figure 71. Carbon tetrachloride concentrations (ppmv) for Well Port DE3-1.

Table F-72. Monitoring data for Well DE3-2 from January through June 2004.

Well Port DE3-2	Inside Fence Y	Frequency M	Depth 443 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/7/04 9:36 AM	1/7/04 2:09 PM	5.15E+00	2.82E+00	1.07E+00	8.32E+00	2.72E+01	8.09E+03
2/3/04 8:54 AM	2/3/04 1:02 PM	5.98E+00	2.57E+00	1.42E+00	9.11E+00	2.03E+01	1.03E+04
3/1/04 9:37 AM	3/2/04 1:17 PM	3.97E+00	1.92E+00	3.04E-01	2.40E+00	1.17E+01	8.86E+03
4/5/04 10:21 AM	4/5/04 1:22 PM	9.46E+00	3.57E+00	1.89E+00	1.77E+01	3.39E+01	1.54E+04
5/5/04 7:47 AM	5/5/04 11:31 AM	3.49E+00	1.69E+00	7.14E-01	3.06E+00	6.10E+00	1.09E+04
6/7/04 11:45 AM	6/8/04 1:27 PM	3.70E+00	1.87E+00	6.11E-01	1.47E+00	3.76E+00	1.48E+04

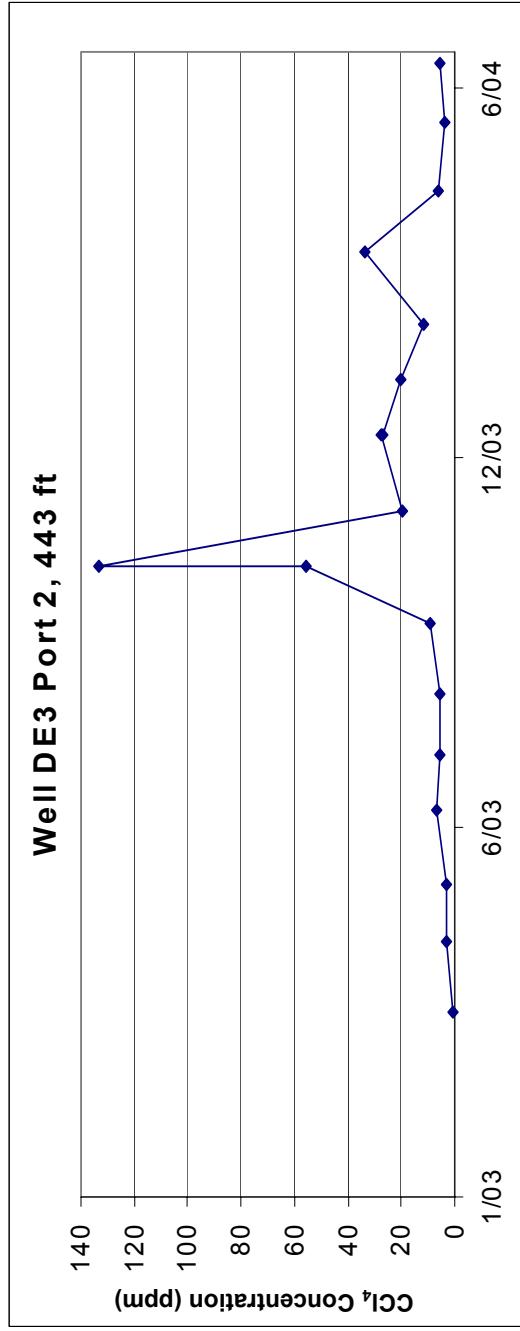


Figure 72. Carbon tetrachloride concentrations (ppmv) for Well Port DE3-2.

Table F-73. Monitoring data for Well DE3-3 from January through June 2004.

Well Port DE3-3	Inside Fence Y	Frequency M	Depth 388 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/7/04 9:37 AM	1/7/04 2:12 PM	4.86E+00	2.89E+00	1.10E+00	7.61E+00	2.46E+01	9.51E+03
2/3/04 8:55 AM	2/3/04 1:05 PM	5.63E+00	2.87E+00	1.42E+00	8.57E+00	1.95E+01	1.00E+04
3/1/04 9:43 AM	3/2/04 1:20 PM	3.53E+00	2.06E+00	2.91E-01	1.82E+00	9.29E+00	8.88E+03
4/5/04 10:22 AM	4/5/04 1:25 PM	8.94E+00	3.67E+00	1.70E+00	1.51E+01	3.12E+01	1.53E+04
4/5/04 10:22 AM	4/5/04 1:28 PM	8.88E+00	3.60E+00	1.73E+00	1.49E+01	3.10E+01	1.52E+04
5/5/04 7:48 AM	5/5/04 11:34 AM	3.92E+00	2.10E+00	7.77E-01	3.17E+00	7.23E+00	1.05E+04
6/7/04 11:45 AM	6/8/04 1:30 PM	4.09E+00	2.36E+00	6.30E-01	1.77E+00	4.89E+00	1.51E+04

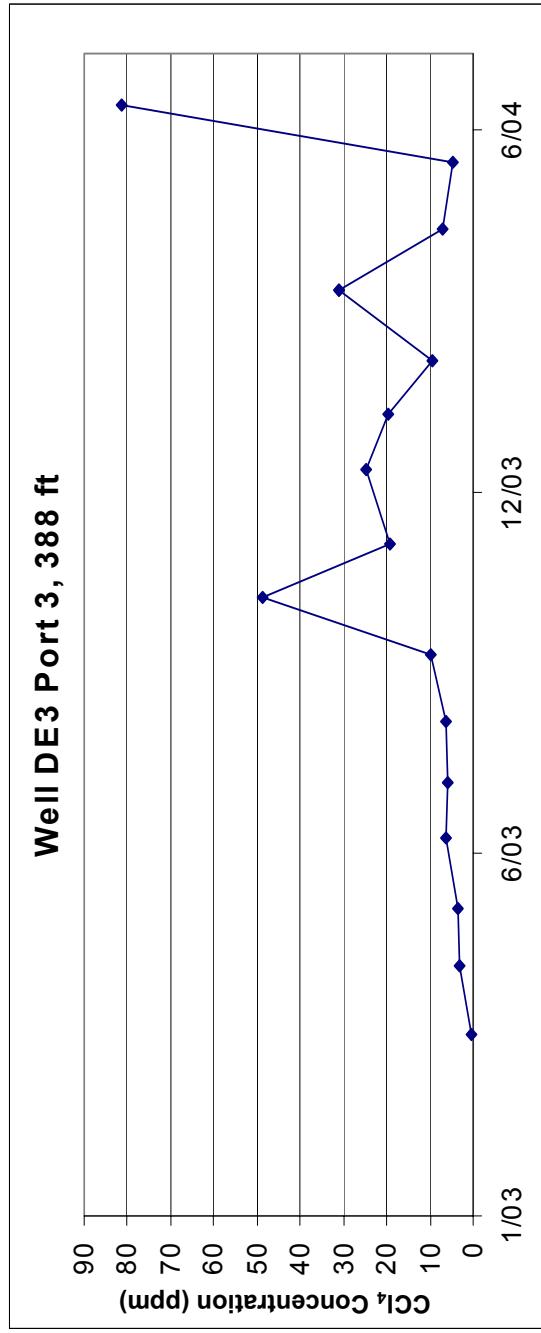


Figure 73. Carbon tetrachloride concentrations (ppmv) for Well Port DE3-3.

Table F-74. Monitoring data for Well DE3-4 from January through June 2004.

Well Port DE3-4	Inside Fence Y	Frequency M	Depth 216 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/7/04 9:38 AM	1/7/04 2:15 PM	1.45E+01	8.24E+00	1.83E+00	1.52E+01	6.15E+01	8.51E+03
2/3/04 8:56 AM	2/3/04 1:08 PM	1.27E+01	6.19E+00	1.85E+00	1.44E+01	4.69E+01	1.00E+04
3/1/04 9:46 AM	3/2/04 1:23 PM	1.19E+01	6.71E+00	8.81E-01	6.75E+00	3.97E+01	8.88E+03
4/5/04 10:23 AM	4/5/04 1:31 PM	2.07E+01	1.05E+01	2.98E+00	2.72E+01	8.34E+01	1.50E+04
5/5/04 7:48 AM	5/5/04 11:37 AM	1.51E+01	8.16E+00	1.71E+00	1.32E+01	5.50E+01	1.15E+04
6/7/04 11:45 AM	6/8/04 1:33 PM	2.13E+01	1.12E+01	2.78E+00	2.49E+01	8.39E+01	1.48E+04

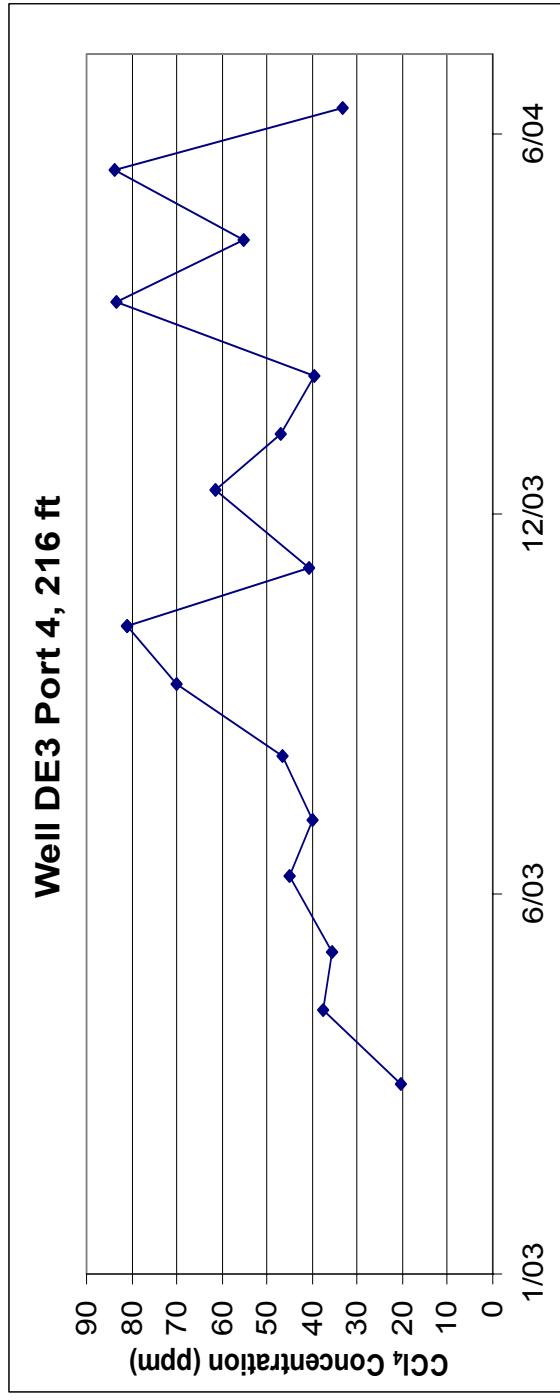


Figure 74. Carbon tetrachloride concentrations (ppmv) for Well Port DE3-4.

Table F-75. Monitoring data for Well DE3-5 from January through June 2004.

Well Port DE3-5	Inside Fence Y	Frequency M	Depth 183 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/7/04 9:39 AM	1/7/04 2:18 PM	9.57E+00	5.66E+00	1.41E+00	1.12E+01	4.10E+01	8.08E+03
2/3/04 8:56 AM	2/3/04 1:11 PM	1.39E+01	7.92E+00	2.18E+00	1.59E+01	5.98E+01	9.88E+03
3/1/04 9:47 AM	3/2/04 1:27 PM	9.63E+00	5.98E+00	7.18E-01	6.69E+00	3.73E+01	8.97E+03
4/5/04 10:24 AM	4/5/04 1:34 PM	1.56E+01	8.22E+00	2.54E+00	2.15E+01	6.61E+01	1.47E+04
5/5/04 7:50 AM	5/5/04 11:40 AM	1.33E+01	7.80E+00	1.70E+00	1.24E+01	5.15E+01	1.15E+04
6/7/04 11:45 AM	6/8/04 1:36 PM	1.42E+01	7.59E+00	2.02E+00	1.47E+01	4.56E+01	1.48E+04

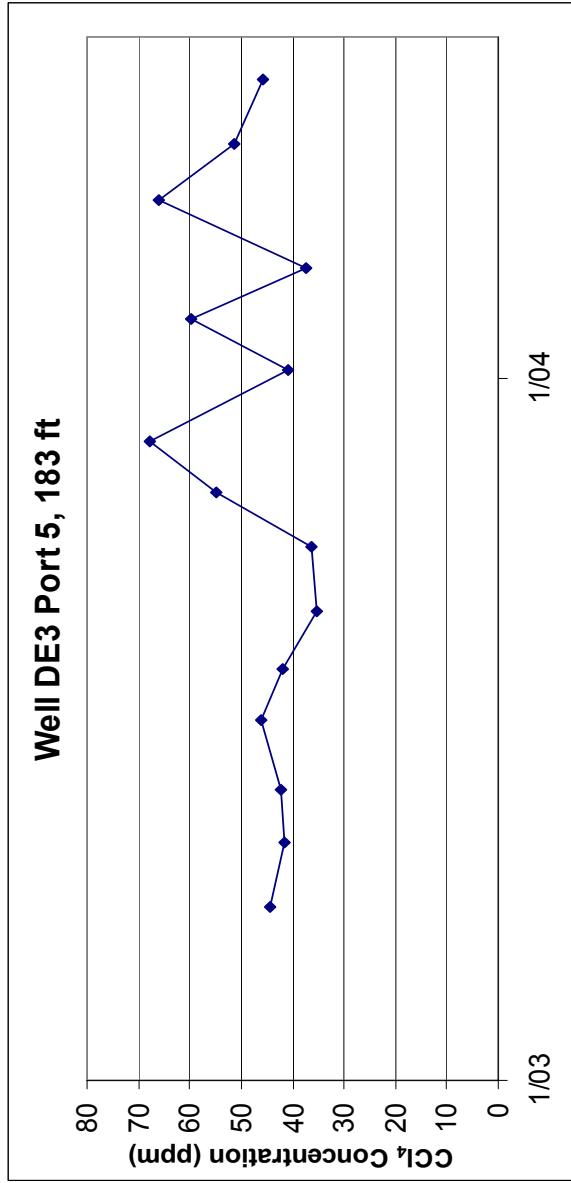


Figure 75. Carbon tetrachloride concentrations (ppmv) for Well Port DE3-5.

Table F-76. Monitoring data for Well DE4-1 from January through June 2004.

Well Port DE4-1	Inside Fence Y	Frequency M	Depth 439 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/7/04 9:52 AM	1/7/04 1:48 PM	8.95E+00	3.61E+00	1.82E+00	1.30E+01	4.65E+01	8.76E+03
2/3/04 9:04 AM	2/3/04 1:44 PM	1.40E+01	4.21E+00	2.16E+00	2.10E+01	5.55E+01	9.76E+03
3/1/04 10:07 AM	3/2/04 11:08 AM	1.87E+01	6.19E+00	1.10E+00	2.52E+01	8.03E+01	8.36E+03
4/6/04 8:43 AM	4/7/04 9:52 AM	8.10E+00	2.32E+00	1.11E+00	9.32E+00	2.00E+01	1.52E+04
5/10/04 9:51 AM	5/12/04 9:29 AM	8.30E+00	3.19E+00	3.15E+00	1.09E+01	1.96E+01	1.18E+04
6/7/04 1:15 PM	6/8/04 1:46 PM	4.79E+00	1.84E+00	9.51E-01	4.33E+00	7.22E+00	1.51E+04

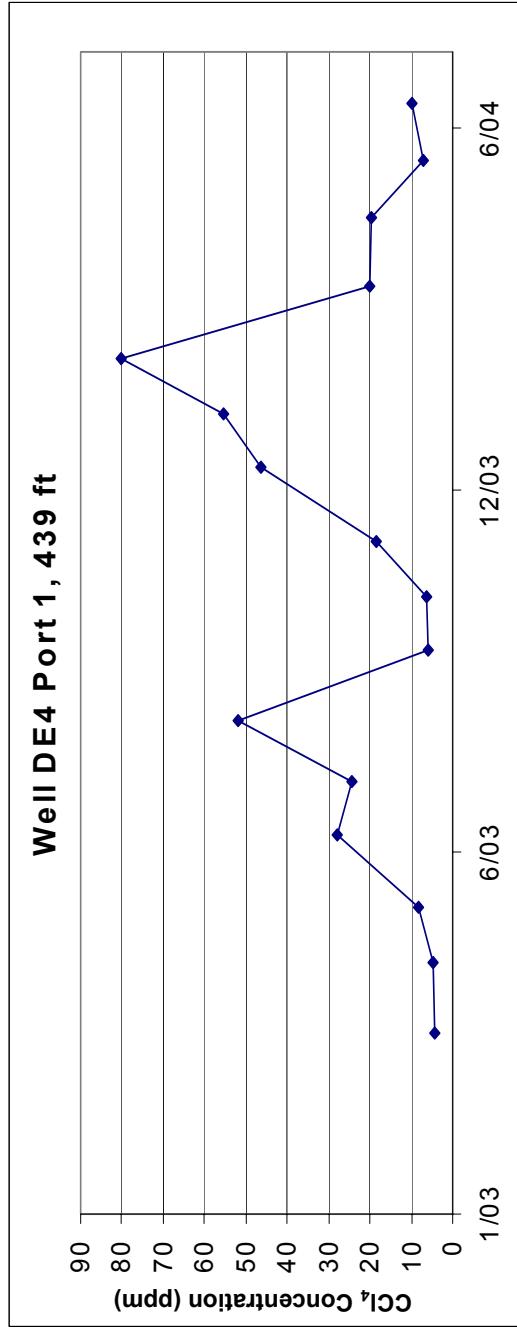


Figure F-76. Carbon tetrachloride concentrations (ppm) for Well Port DE4-1.

Table F-77. Monitoring data for Well DE4-2 from January through June 2004.

Well Port DE4-2	Inside Fence Y	Frequency M	Depth 412 ft	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/7/04 9:53 AM	1/7/04 1:51 PM	1.37E+01	5.22E+00	2.11E+00	1.83E+01	7.06E+01	1.17E+04		
2/3/04 9:04 AM	2/3/04 1:47 PM	8.13E+00	2.63E+00	1.70E+00	1.38E+01	3.28E+01	9.46E+03		
3/1/04 10:08 AM	3/2/04 11:11 AM	1.23E+01	4.10E+00	9.83E-01	1.83E+01	5.17E+01	8.42E+03		
4/6/04 8:44 AM	4/7/04 9:55 AM	5.03E+00	1.65E+00	7.20E-01	5.77E+00	1.11E+01	1.52E+04		
5/10/04 9:51 AM	5/12/04 9:32 AM	5.81E+00	2.50E+00	2.42E+00	7.54E+00	1.34E+01	1.18E+04		
6/7/04 1:15 PM	6/8/04 1:48 PM	3.77E+00	1.60E+00	6.14E-01	2.54E+00	4.05E+00	1.51E+04		

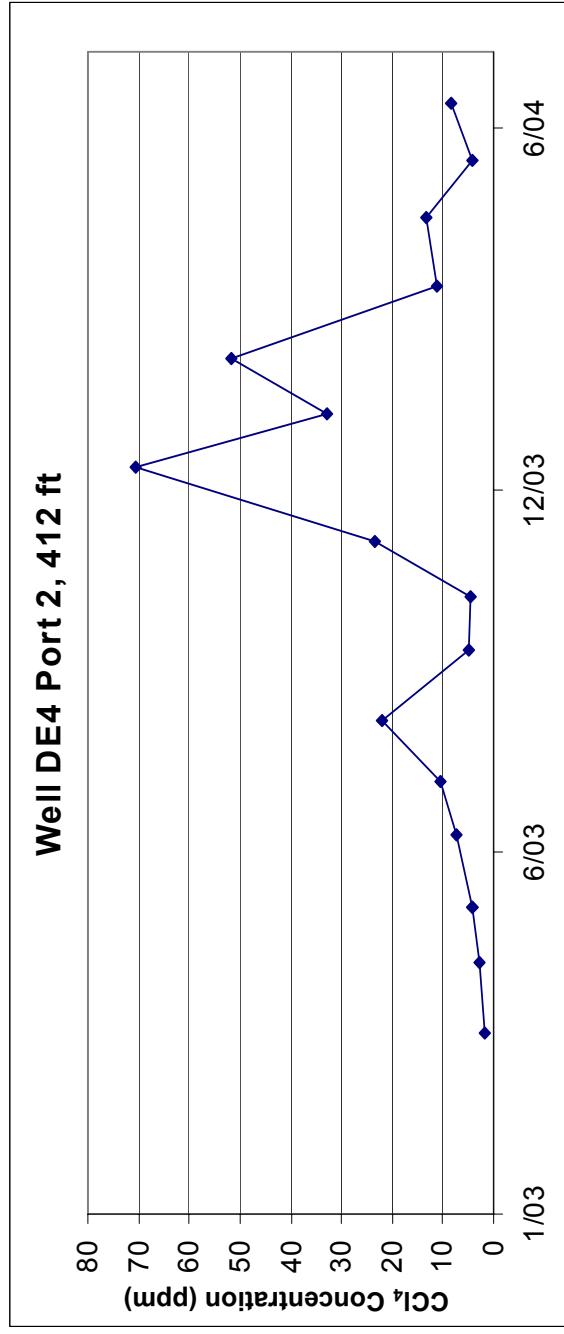


Figure 77. Carbon tetrachloride concentrations (ppmv) for Well Port DE4-2.

Table F-78. Monitoring data for Well DE4-3 from January through June 2004.

Well Port DE4-3	Inside Fence Y	Frequency M	Depth 390 ft	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/7/04 9:54 AM	1/7/04 1:54 PM	9.39E+00	3.79E+00	1.54E+00	1.18E+01	4.53E+01	9.01E+03		
2/3/04 9:05 AM	2/3/04 1:50 PM	6.40E+00	2.44E+00	1.46E+00	9.30E+00	2.07E+01	9.64E+03		
3/1/04 10:09 AM	3/2/04 11:14 AM	1.08E+01	3.85E+00	9.11E-01	1.54E+01	4.02E+01	8.36E+03		
3/1/04 10:09 AM	3/2/04 11:17 AM	1.09E+01	3.76E+00	9.39E-01	1.51E+01	3.95E+01	8.38E+03		
4/6/04 8:44 AM	4/7/04 9:57 AM	5.39E+00	1.70E+00	6.97E-01	4.33E+00	8.21E+00	1.53E+04		
4/6/04 8:44 AM	4/7/04 10:00 AM	5.52E+00	1.81E+00	7.67E-01	4.23E+00	8.15E+00	1.53E+04		
5/10/04 9:53 AM	5/12/04 9:35 AM	6.48E+00	2.48E+00	2.04E+00	6.01E+00	1.06E+01	1.18E+04		
6/7/04 1:15 PM	6/8/04 1:51 PM	5.32E+00	1.96E+00	5.88E-01	2.16E+00	3.83E+00	1.51E+04		

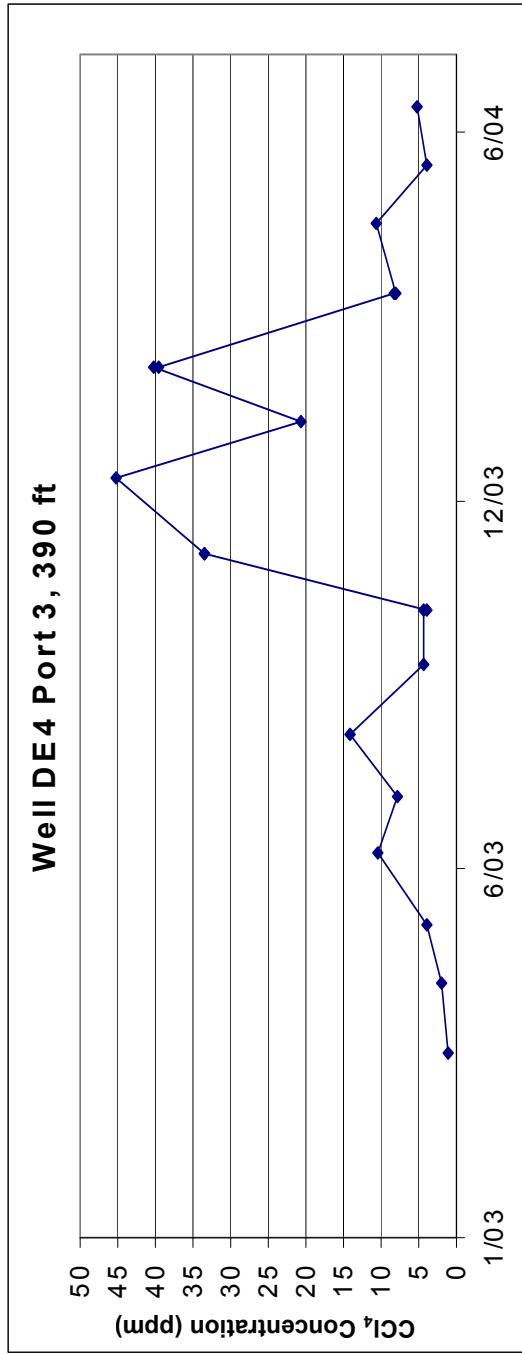


Figure 78. Carbon tetrachloride concentrations (ppmv) for Well Port DE4-3.

Table F-79. Monitoring data for Well DE4-4 from January through June 2004.

Well Port DE4-4	Inside Fence Y	Frequency M	Depth 216 ft	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCL ₄ (ppmv)	H ₂ O (ppmv)
1/7/04 9:54 AM	1/7/04 1:57 PM	1.76E+01	7.13E+00	2.11E+00	1.63E+01	5.97E+01	8.72E+03		
2/3/04 9:06 AM	2/3/04 1:53 PM	2.11E+01	9.56E+00	2.70E+00	1.99E+01	7.76E+01	9.64E+03		
3/1/04 10:10 AM	3/2/04 11:20 AM	4.55E+01	1.87E+01	2.81E+00	3.32E+01	1.66E+02	8.50E+03		
4/6/04 8:44 AM	4/7/04 10:04 AM	4.40E+01	1.51E+01	2.41E+00	2.70E+01	1.32E+02	1.54E+04		
5/10/04 9:53 AM	5/12/04 9:39 AM	2.82E+01	1.09E+01	2.59E+00	2.13E+01	8.36E+01	1.19E+04		
5/10/04 9:53 AM	5/12/04 9:41 AM	2.84E+01	1.11E+01	2.79E+00	2.12E+01	8.37E+01	1.19E+04		
6/7/04 1:15 PM	6/8/04 1:54 PM	1.55E+01	5.48E+00	1.01E+00	9.41E+00	3.07E+01	1.51E+04		

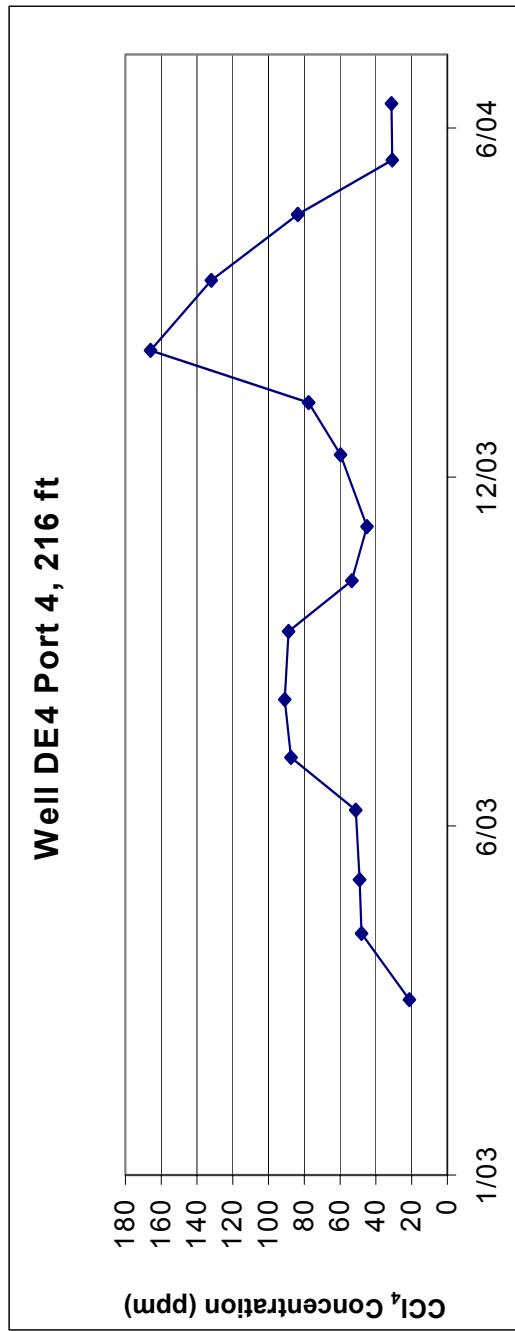


Figure 79. Carbon tetrachloride concentrations (ppmv) for Well Port DE4-4.

Table F-80. Monitoring data for Well DE4-5 from January through June 2004.

Well Port DE4-5	Inside Fence Y	Frequency M	Depth 181 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/7/04 9:54 AM	1/7/04 2:00 PM	1.32E+01	7.67E+00	2.34E+00	1.67E+01	6.08E+01	8.36E+03
2/3/04 9:07 AM	2/3/04 1:56 PM	1.80E+01	9.19E+00	2.68E+00	2.20E+01	7.55E+01	9.64E+03
3/1/04 10:11 AM	3/2/04 11:23 AM	2.98E+01	1.17E+01	1.72E+00	2.69E+01	1.13E+02	8.63E+03
4/6/04 8:45 AM	4/7/04 10:07 AM	1.94E+01	9.34E+00	2.01E+00	1.89E+01	7.28E+01	1.54E+04
5/10/04 9:53 AM	5/12/04 9:45 AM	3.17E+01	1.92E+01	4.55E+00	3.18E+01	1.84E+02	1.19E+04
6/7/04 1:15 PM	6/8/04 1:57 PM	3.35E+01	1.94E+01	3.83E+00	3.40E+01	1.81E+02	1.51E+04

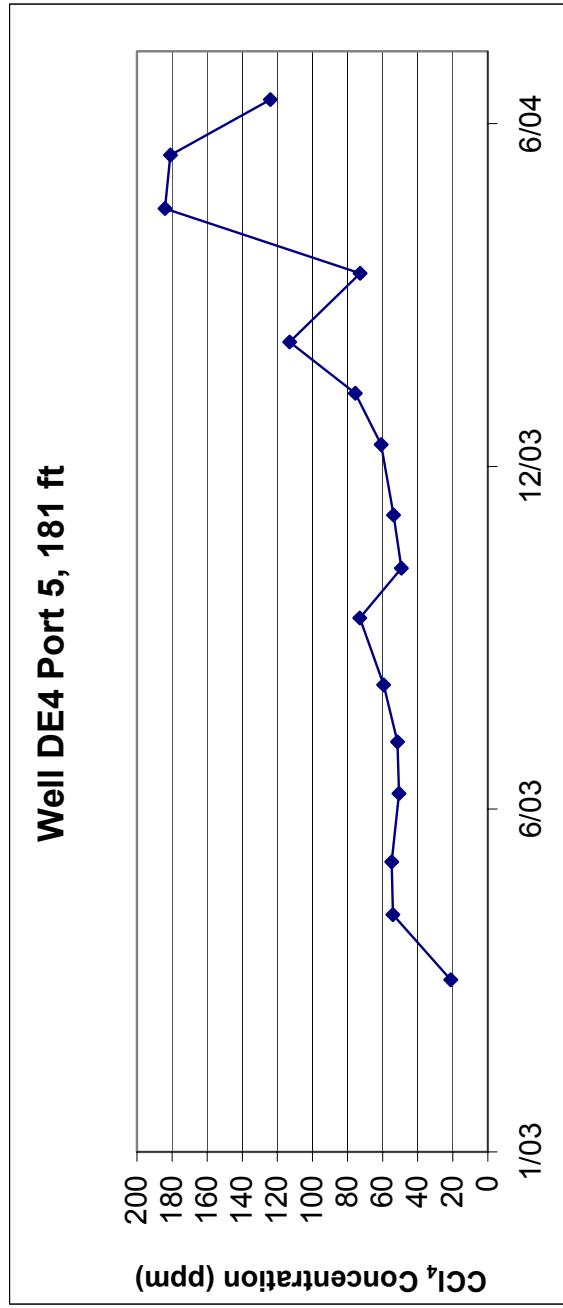


Figure 80. Carbon tetrachloride concentrations (ppmv) for Well Port DE4-5.

Table F-81. Monitoring data for Well DE6-1 from January through June 2004.

Well Port DE6-1	Inside Fence		Frequency M	Depth 441 ft
	Y			
Sample Date and Time	Analysis Date and Time		CHCl ₃ (ppmv)	TCA (ppmv)
1/7/04 10:13 AM	1/7/04 1:09 PM		1.43E+01	7.15E+00
2/3/04 9:35 AM	2/3/04 2:29 PM		1.68E+01	9.30E+00
3/2/04 10:32 AM	3/2/04 9:32 AM		2.39E+01	9.80E+00
4/6/04 9:52 AM	4/7/04 8:52 AM		3.57E+00	1.47E+00
5/4/04 7:39 AM	5/4/04 12:15 PM		6.67E+00	5.26E+00
6/9/04 12:00 PM	6/10/04 4:09 PM		3.27E+00	1.28E+00

	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/7/04 10:13 AM				5.63E+00	2.76E+01	6.10E+01
2/3/04 9:35 AM			6.03E+00	3.18E+01	6.54E+01	9.56E+03
3/2/04 10:32 AM			5.73E+00	3.47E+01	8.61E+01	8.12E+03
4/6/04 9:52 AM			9.99E-01	3.63E+00	7.45E+00	1.51E+04
5/4/04 7:39 AM			2.88E+00	9.25E+00	2.14E+01	1.41E+04
6/9/04 12:00 PM			3.62E-01	6.05E-01	9.49E-01	1.67E+04

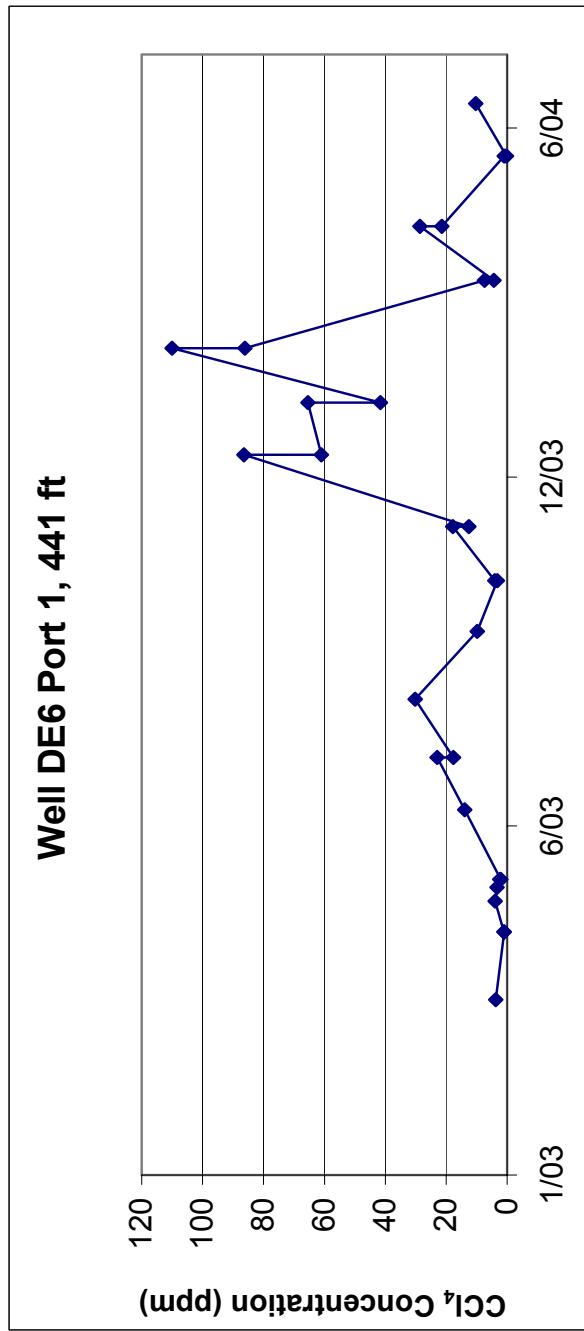


Figure 81. Carbon tetrachloride concentrations (ppmv) for Well Port DE6-1.

Table F-82. Monitoring data for Well DE6-2 from January through June 2004.

Well Port DE6-2	Inside Fence Y	Frequency M	Depth 405 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/7/04 10:14 AM	1/7/04 1:12 PM	1.06E+01	5.30E+00	4.59E+00	2.15E+01	4.49E+01	1.00E+04
2/3/04 9:36 AM	2/3/04 2:35 PM	1.04E+01	5.12E+00	4.00E+00	2.11E+01	3.80E+01	9.41E+03
3/1/04 10:33 AM	3/2/04 9:35 AM	1.96E+01	7.65E+00	4.39E+00	3.11E+01	7.19E+01	8.17E+03
3/1/04 10:33 AM	3/2/04 9:38 AM	1.95E+01	7.48E+00	3.84E+00	3.07E+01	7.15E+01	8.21E+03
4/6/04 9:53 AM	4/7/04 8:58 AM	2.72E+00	1.27E+00	7.91E-01	2.03E+00	3.77E+00	1.51E+04
5/4/04 7:40 AM	5/4/04 12:18 PM	6.19E+00	4.34E+00	2.43E+00	7.47E+00	1.64E+01	1.39E+04
6/9/04 12:00 PM	6/10/04 4:15 PM	3.08E+00	1.13E+00	1.41E-01	3.03E-01	4.96E-02	1.67E+04

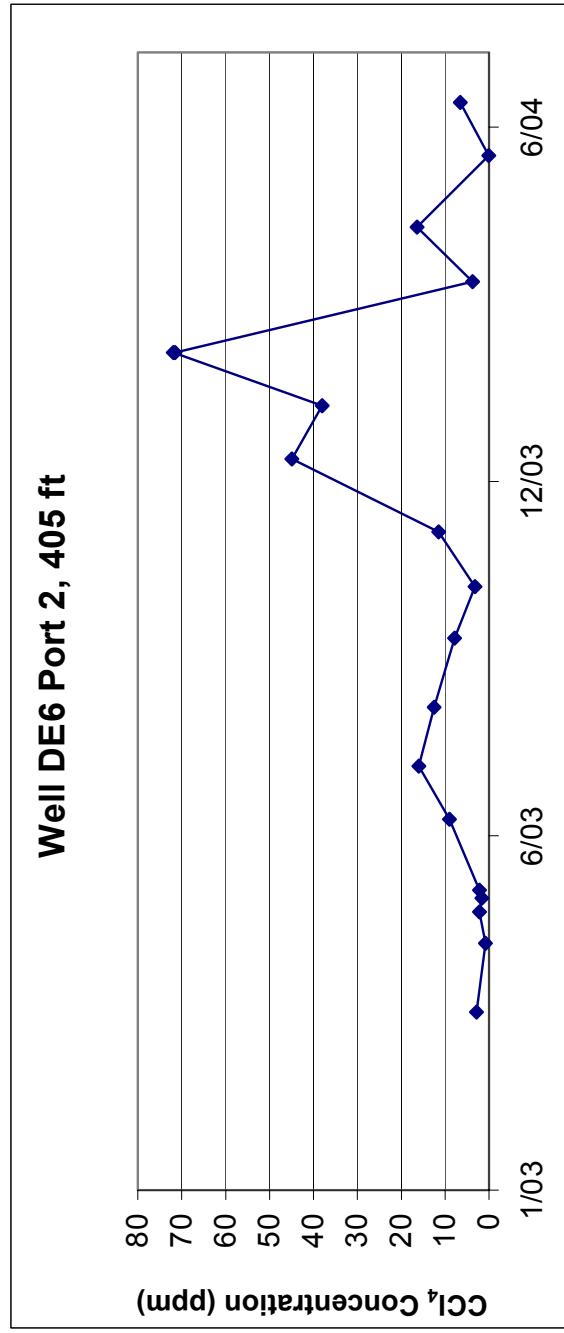


Figure 82. Carbon tetrachloride concentrations (ppm) for Well Port DE6-2.

Table F-83. Monitoring data for Well DE6-3 from January through June 2004.

Well Port DE6-3	Inside Fence Y	Frequency M	Depth 364 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/7/04 10:15 AM	1/7/04 1:15 PM	1.01E+01	4.72E+00	3.97E+00	1.97E+01	4.21E+01	8.67E+03
2/3/04 9:36 AM	2/3/04 2:38 PM	7.90E+00	3.85E+00	3.20E+00	1.61E+01	2.78E+01	9.36E+03
3/1/04 10:35 AM	3/2/04 9:41 AM	1.64E+01	6.21E+00	3.44E+00	2.64E+01	6.01E+01	8.27E+03
4/6/04 9:54 AM	4/7/04 9:01 AM	2.87E+00	1.30E+00	8.03E-01	1.79E+00	3.22E+00	1.51E+04
5/4/04 7:41 AM	5/4/04 12:21 PM	4.26E+00	2.77E+00	1.97E+00	4.52E+00	8.88E+00	1.40E+04
6/9/04 12:50 PM	6/10/04 4:18 PM	3.41E+00	1.50E+00	2.51E-01	3.95E-01	6.41E-01	1.67E+04

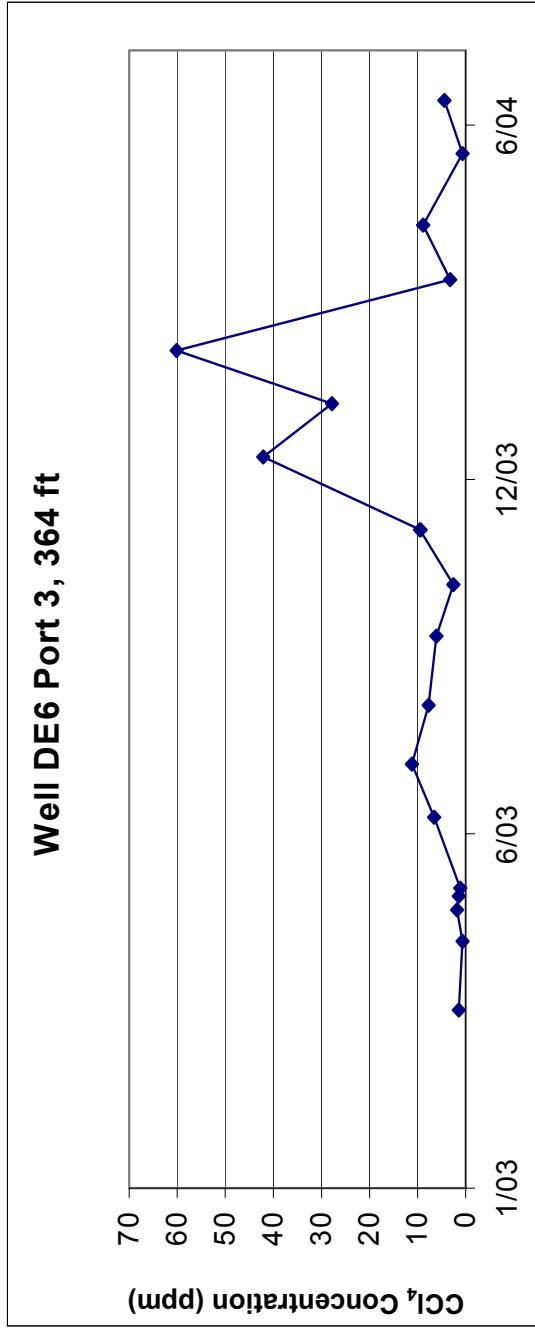


Figure 83. Carbon tetrachloride concentrations (ppm) for Well Port DE6-3.

Table F-84. Monitoring data for Well DE6-4 from January through June 2004.

Well Port DE6-4	Inside Fence Y	Frequency M	Depth 218 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/7/04 10:16 AM	1/7/04 1:18 PM	1.10E+01	6.26E+00	4.04E+00	1.90E+01	4.39E+01	8.36E+03
2/3/04 9:37 AM	2/3/04 2:41 PM	2.33E+01	1.83E+01	5.80E+00	3.20E+01	1.23E+02	9.30E+03
3/1/04 10:37 AM	3/2/04 9:44 AM	1.71E+01	8.16E+00	3.61E+00	2.47E+01	6.12E+01	8.43E+03
4/6/04 9:55 AM	4/7/04 9:04 AM	8.28E+00	5.29E+00	1.58E+00	5.95E+00	2.53E+01	1.52E+04
4/6/04 9:55 AM	4/7/04 9:07 AM	8.33E+00	5.26E+00	1.54E+00	6.09E+00	2.55E+01	1.52E+04
5/4/04 7:41 AM	5/4/04 12:24 PM	6.68E+00	4.45E+00	2.04E+00	6.20E+00	1.61E+01	1.38E+04
5/4/04 7:41 AM	5/4/04 12:27 PM	6.61E+00	4.57E+00	2.07E+00	6.19E+00	1.62E+01	1.39E+04
6/9/04 12:51 PM	6/10/04 4:21 PM	5.80E+00	3.12E+00	8.03E-01	3.75E+00	8.88E+00	1.64E+04

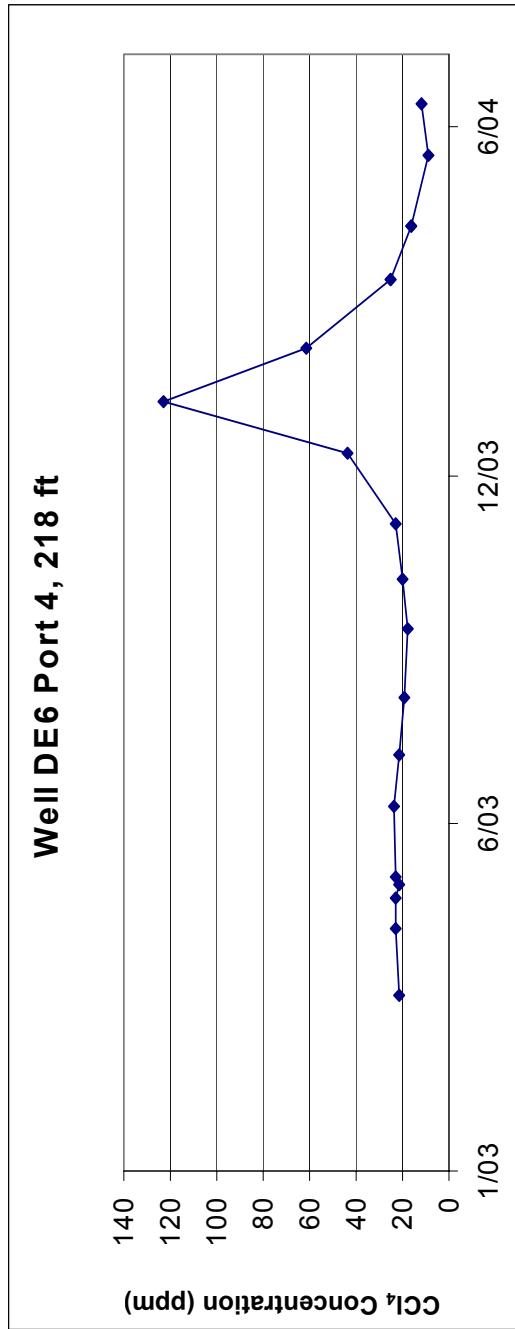


Figure 84. Carbon tetrachloride concentrations (ppmv) for Well Port DE6-4.

Table F-85. Monitoring data for Well DE6-5 from January through June 2004.

Well Port DE6-5	Inside Fence Y	Frequency M	Depth 133 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/7/04 10:17 AM	1/7/04 1:21 PM	1.01E+01	5.68E+00	3.69E+00	1.72E+01	3.85E+01	8.58E+03
2/3/04 9:38 AM	2/3/04 2:44 PM	1.00E+01	6.07E+00	3.46E+00	1.82E+01	4.08E+01	9.17E+03
3/1/04 10:40 AM	3/2/04 9:47 AM	1.31E+01	5.89E+00	3.07E+00	2.17E+01	4.76E+01	8.33E+03
5/4/04 7:41 AM	5/4/04 12:30 PM	6.51E+00	4.03E+00	1.88E+00	6.22E+00	1.62E+01	1.39E+04
6/9/04 12:52 PM	6/10/04 4:24 PM	5.05E+00	2.48E+00	6.45E-01	3.06E+00	5.66E+00	1.64E+04

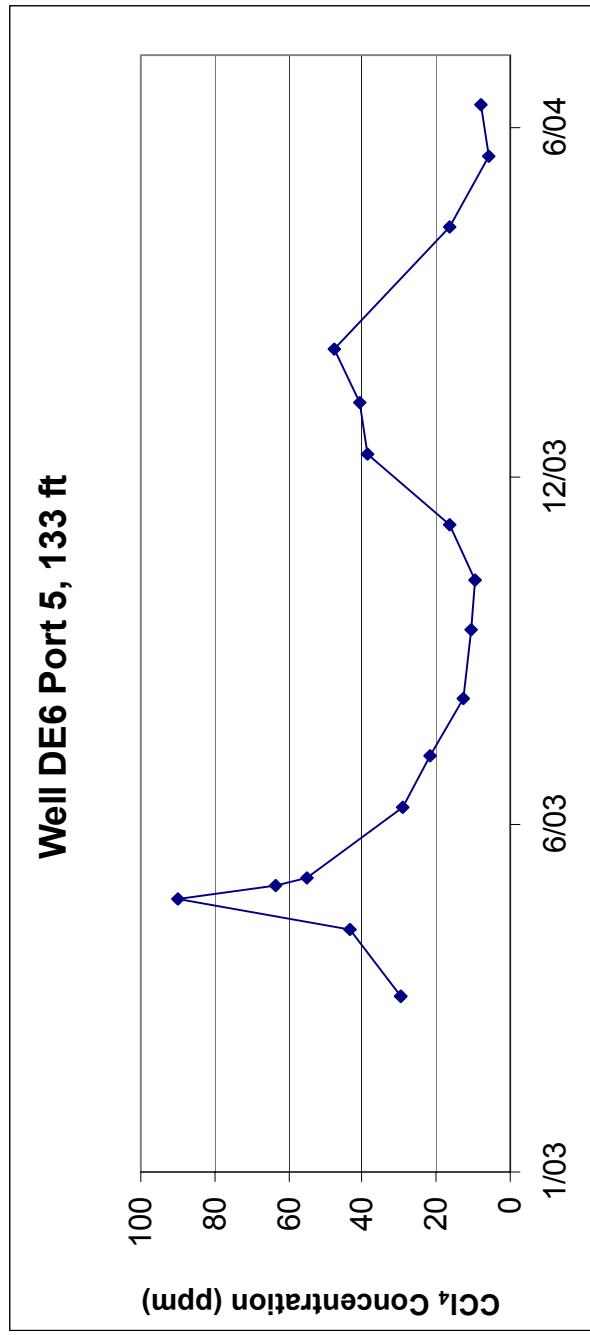


Figure 85. Carbon tetrachloride concentrations (ppmv) for Well Port DE6-5.

Table F-86. Monitoring data for Well DE7-1 from January through June 2004.

Well Port DE7-1	Inside Fence Y	Frequency M	Depth 454 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/7/04 10:04 AM	1/7/04 2:21 PM	5.38E+01	1.26E+01	2.23E+00	6.88E+01	1.84E+02	7.83E+03
2/3/04 9:26 AM	2/3/04 2:11 PM	2.86E+01	6.06E+00	1.76E+00	4.52E+01	9.39E+01	9.49E+03
2/3/04 9:26 AM	2/3/04 2:14 PM	2.88E+01	6.11E+00	1.71E+00	4.62E+01	9.46E+01	9.47E+03
3/1/04 10:19 AM	3/1/04 2:29 PM	3.68E+01	9.35E+00	2.82E+00	4.99E+01	1.29E+02	1.19E+04
4/5/04 9:17 AM	4/7/04 8:25 AM	5.61E+01	1.24E+01	3.11E+00	5.93E+01	1.71E+02	1.52E+04
4/5/04 9:17 AM	4/7/04 8:28 AM	5.67E+01	1.25E+01	2.74E+00	6.03E+01	1.73E+02	1.52E+04
5/10/04 9:30 AM	5/12/04 11:02 AM	4.07E+01	1.05E+01	1.69E+00	2.92E+01	8.82E+01	1.23E+04

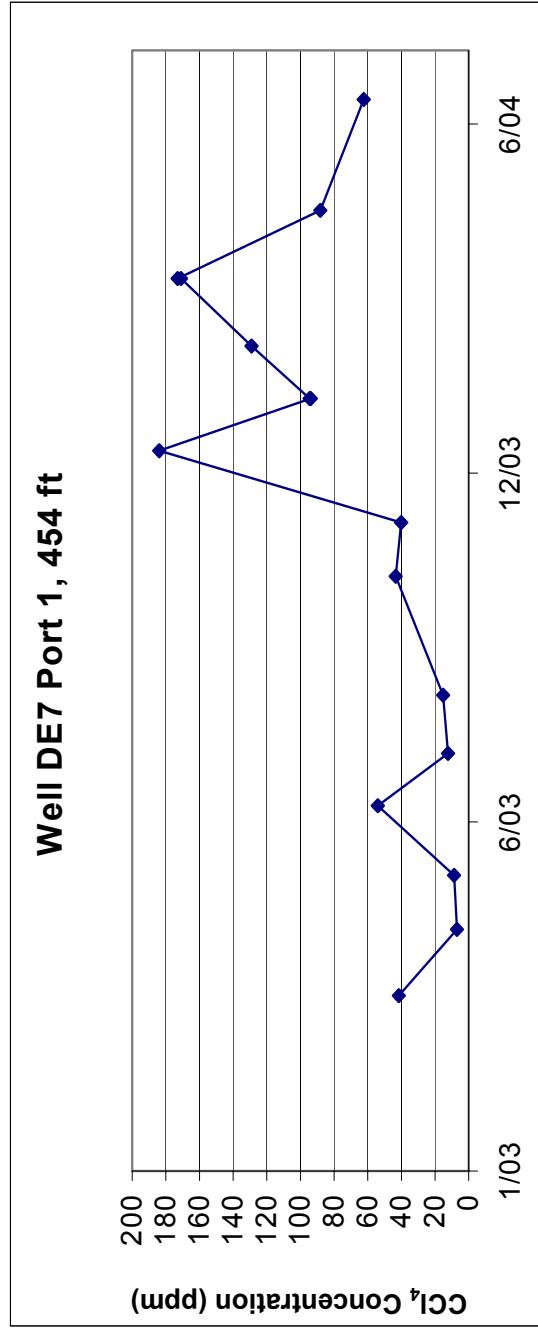


Figure 86. Carbon tetrachloride concentrations (ppm) for Well Port DE7-1.

Table F-87. Monitoring data for Well DE7-2 from January through June 2004.

Well Port DE7-2	Inside Fence Y	Frequency M	Depth 432 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/7/04 10:04 AM	1/7/04 2:24 PM	3.73E+01	9.86E+00	2.44E+00	4.91E+01	1.27E+02	7.72E+03
2/3/04 9:25 AM	2/3/04 1:38 PM	2.27E+02	5.94E+01	9.63E+00	2.03E+02	7.12E+02	1.02E+04
2/3/04 9:27 AM	2/3/04 2:17 PM	4.51E+01	1.09E+01	2.82E+00	6.61E+01	1.47E+02	9.28E+03
3/1/04 10:21 AM	3/1/04 2:32 PM	2.70E+01	7.73E+00	3.42E+00	4.01E+01	9.43E+01	1.10E+04
4/5/04 9:18 AM	4/7/04 8:31 AM	1.31E+01	4.24E+00	2.52E+00	2.07E+01	3.90E+01	1.53E+04
5/10/04 9:30 AM	5/12/04 11:05 AM	1.66E+01	4.70E+00	1.41E+00	1.82E+01	3.51E+01	1.24E+04

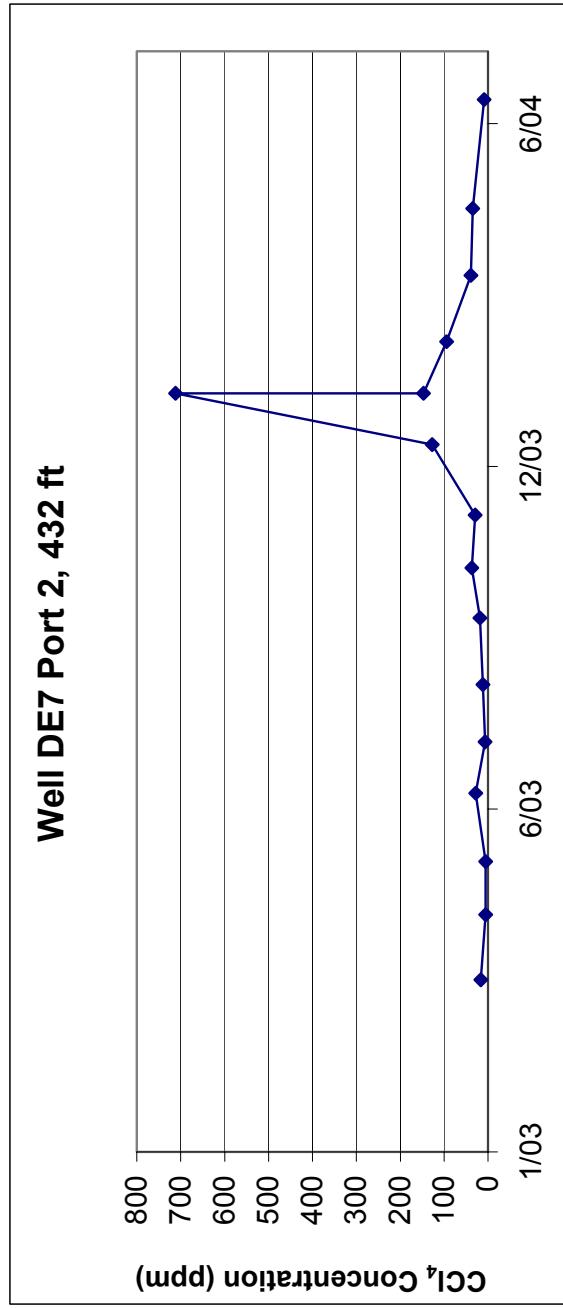


Figure 87. Carbon tetrachloride concentrations (ppmv) for Well Port DE7-2.

Table F-88. Monitoring data for Well DE7-3 from January through June 2004.

Well Port DE7-3	Inside Fence Y	Frequency M	Depth 406 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/7/04 10:06 AM	1/7/04 2:27 PM	2.44E+01	6.05E+00	1.54E+00	3.51E+01	8.01E+01	9.93E+03
2/3/04 9:27 AM	2/3/04 2:20 PM	2.09E+01	5.07E+00	1.52E+00	3.37E+01	6.57E+01	9.54E+03
3/1/04 10:22 AM	3/1/04 2:34 PM	4.79E+01	1.18E+01	3.17E+00	6.16E+01	1.62E+02	1.08E+04
4/5/04 9:18 AM	4/7/04 8:34 AM	1.48E+01	3.41E+00	1.51E+00	2.10E+01	4.49E+01	1.51E+04
5/10/04 9:32 AM	5/12/04 11:08 AM	1.09E+01	2.50E+00	6.92E-01	1.24E+01	2.08E+01	1.23E+04

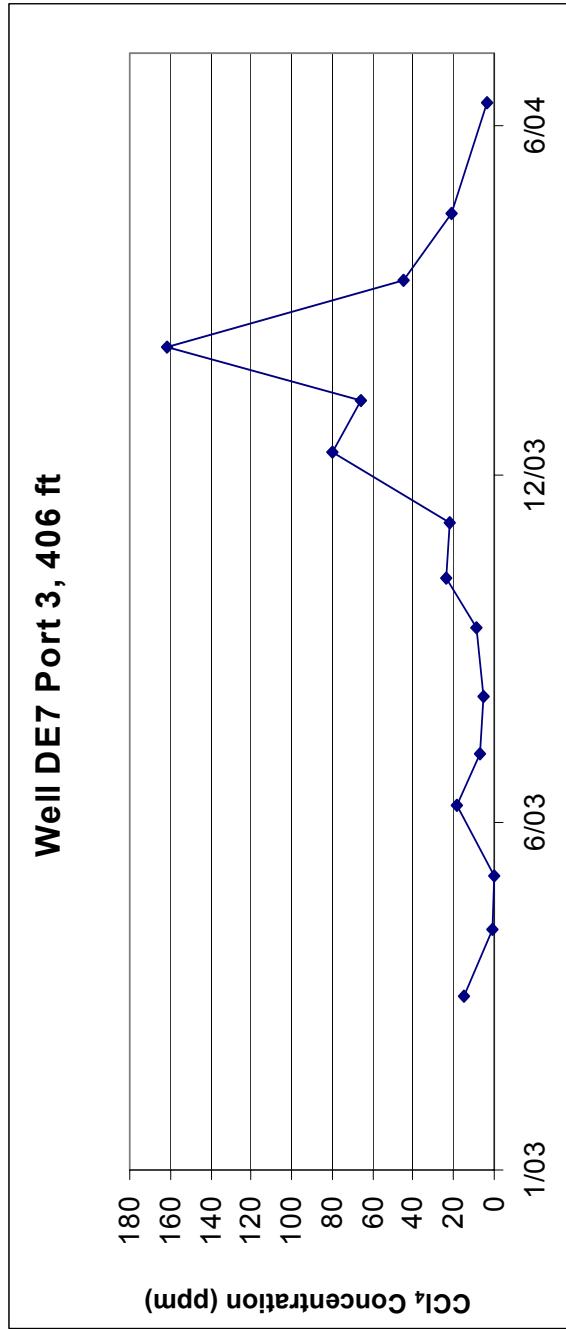


Figure 88. Carbon tetrachloride concentrations (ppmv) for Well Port DE7-3.

Table F-89. Monitoring data for Well DE7-4 from January through June 2004.

Well Port DE7-4	Inside Fence Y	Frequency M	Depth 220 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/7/04 10:06 AM	1/7/04 2:30 PM	2.17E+01	7.20E+00	2.03E+00	3.39E+01	7.75E+01	7.98E+03
2/3/04 9:28 AM	2/3/04 2:23 PM	2.05E+01	7.00E+00	2.13E+00	3.48E+01	7.27E+01	9.50E+03
3/1/04 10:23 AM	3/1/04 2:37 PM	6.32E+01	1.60E+01	3.75E+00	7.71E+01	2.13E+02	1.44E+04
4/5/04 9:19 AM	4/7/04 8:37 AM	1.36E+01	5.05E+00	1.92E+00	1.89E+01	4.60E+01	1.52E+04
5/10/04 9:32 AM	5/12/04 11:11 AM	2.79E+01	1.15E+01	2.19E+00	2.43E+01	8.64E+01	1.23E+04

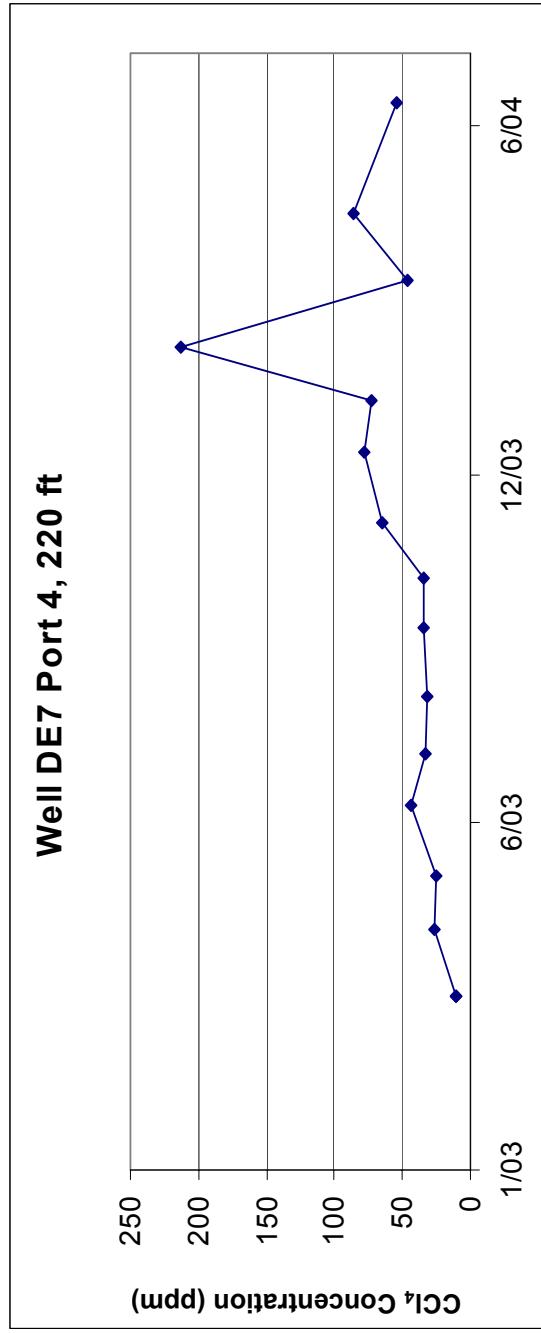


Figure 89. Carbon tetrachloride concentrations (ppmv) for Well Port DE7-4.

Table F-90. Monitoring data for Well DE7-5 from January through June 2004.

Well Port DE7-5	Inside Fence Y	Frequency M	Depth 165 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/7/04 10:07 AM	1/7/04 2:33 PM	1.97E+01	7.54E+00	2.15E+00	2.71E+01	7.49E+01	7.65E+03
2/3/04 9:28 AM	2/3/04 2:26 PM	4.20E+00	1.86E+00	6.56E-01	6.94E+00	1.64E+01	9.51E+03
3/1/04 10:25 AM	3/1/04 2:43 PM	8.77E+01	2.16E+01	3.53E+00	8.79E+01	2.92E+02	1.78E+04
4/5/04 9:19 AM	4/7/04 8:40 AM	1.78E+01	8.56E+00	2.33E+00	1.86E+01	7.48E+01	1.51E+04
5/10/04 9:32 AM	5/12/04 11:15 AM	2.40E+01	8.93E+00	1.47E+00	1.95E+01	6.95E+01	1.23E+04
5/10/04 9:32 AM	5/12/04 11:18 AM	2.41E+01	8.85E+00	1.51E+00	1.95E+01	6.96E+01	1.24E+04

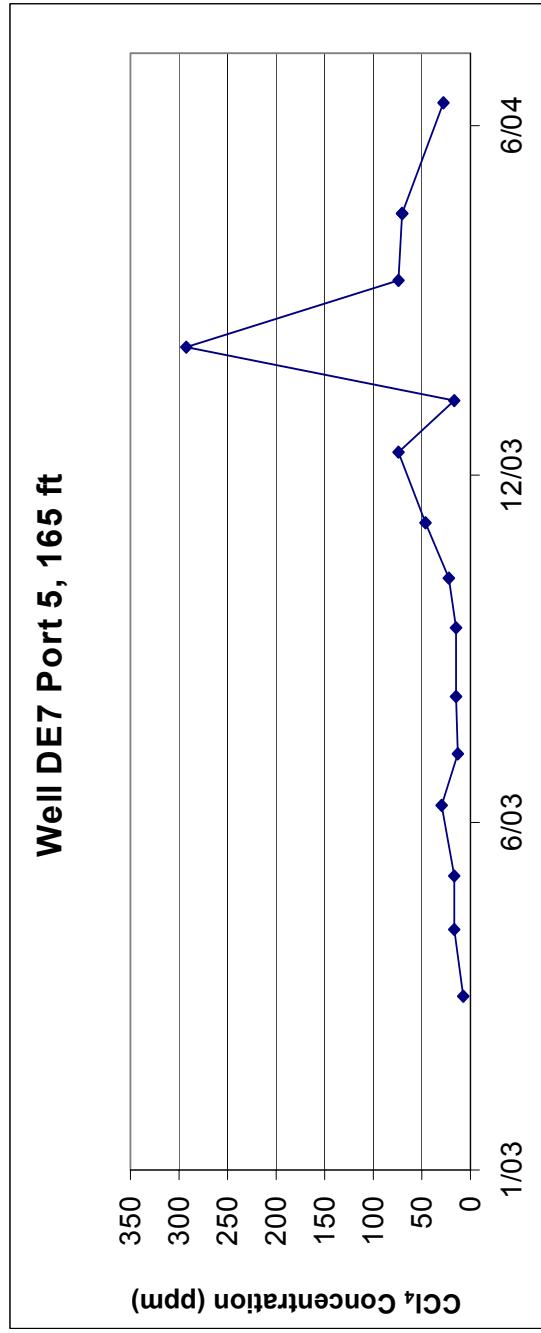


Figure 90. Carbon tetrachloride concentrations (ppmv) for Well Port DE7-5.

Table F-91. Monitoring data for Well DE8-1 from January through June 2004.

Well Port DE8-1	Inside Fence Y	Frequency M	Depth 443 ft				
1/7/04 9:20 AM	1/7/04 2:54 PM	4.02E+00	3.57E+00	6.67E-01	4.32E+00	2.27E+01	8.24E+03
2/3/04 8:33 AM	2/3/04 12:29 PM	1.18E+00	1.02E+00	8.76E-01	1.62E+00	4.04E+00	1.16E+04
3/1/04 8:20 AM	3/2/04 11:59 AM	3.37E+01	1.30E+01	1.69E+00	3.78E+01	1.41E+02	8.62E+03
4/5/04 9:55 AM	4/5/04 12:22 PM	5.55E+01	1.70E+01	6.06E+00	7.38E+01	1.79E+02	1.51E+04
5/5/04 7:35 AM	5/5/04 10:17 AM	1.11E+01	5.51E+00	2.24E+00	5.33E+00	2.32E+01	1.17E+04
6/7/04 1:30 PM	6/8/04 2:09 PM	8.00E+00	4.76E+00	8.19E-01	4.04E+00	2.22E+01	1.52E+04

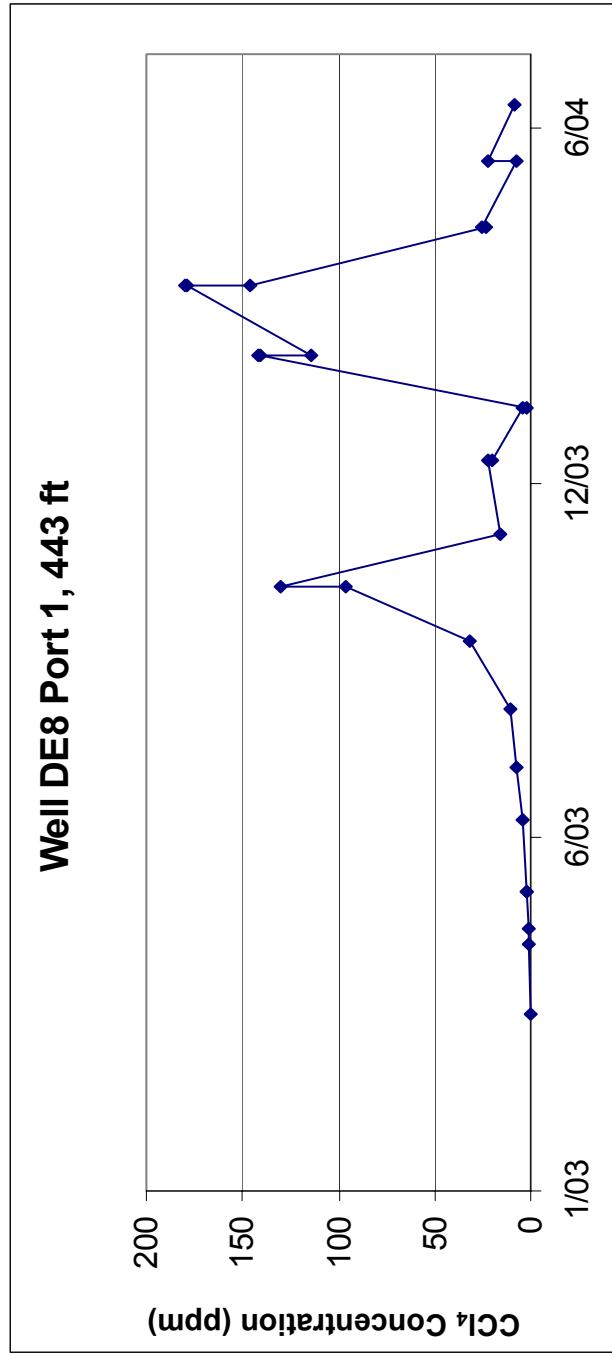


Figure 91. Carbon tetrachloride concentrations (ppmv) for Well Port DE8-1.

Table F-92. Monitoring data for Well DE8-2 from January through June 2004.

Well Port DE8-2	Inside Fence Y	Frequency M	Depth 376 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/7/04 9:21 AM	1/7/04 3:00 PM	2.10E+00	1.70E+00	4.28E-01	1.96E+00	6.75E+00	7.67E+03
2/3/04 8:34 AM	2/3/04 12:35 PM	1.33E+00	1.49E+00	8.78E-01	1.13E+00	3.93E+00	1.09E+04
3/1/04 8:21 AM	3/2/04 12:08 PM	2.08E+01	8.40E+00	1.53E+00	2.69E+01	8.69E+01	9.11E+03
4/5/04 9:55 AM	4/5/04 12:32 PM	3.17E+01	9.23E+00	3.91E+00	5.24E+01	1.06E+02	1.48E+04
5/5/04 7:36 AM	5/5/04 10:22 AM	4.72E+00	2.75E+00	1.82E+00	3.56E+00	1.08E+01	1.15E+04
6/7/04 1:30 PM	6/8/04 2:12 PM	3.89E+00	2.31E+00	6.06E-01	1.71E+00	5.60E+00	1.49E+04
6/7/04 1:30 PM	6/8/04 2:16 PM	3.89E+00	2.39E+00	5.39E-01	1.63E+00	5.28E+00	1.48E+04

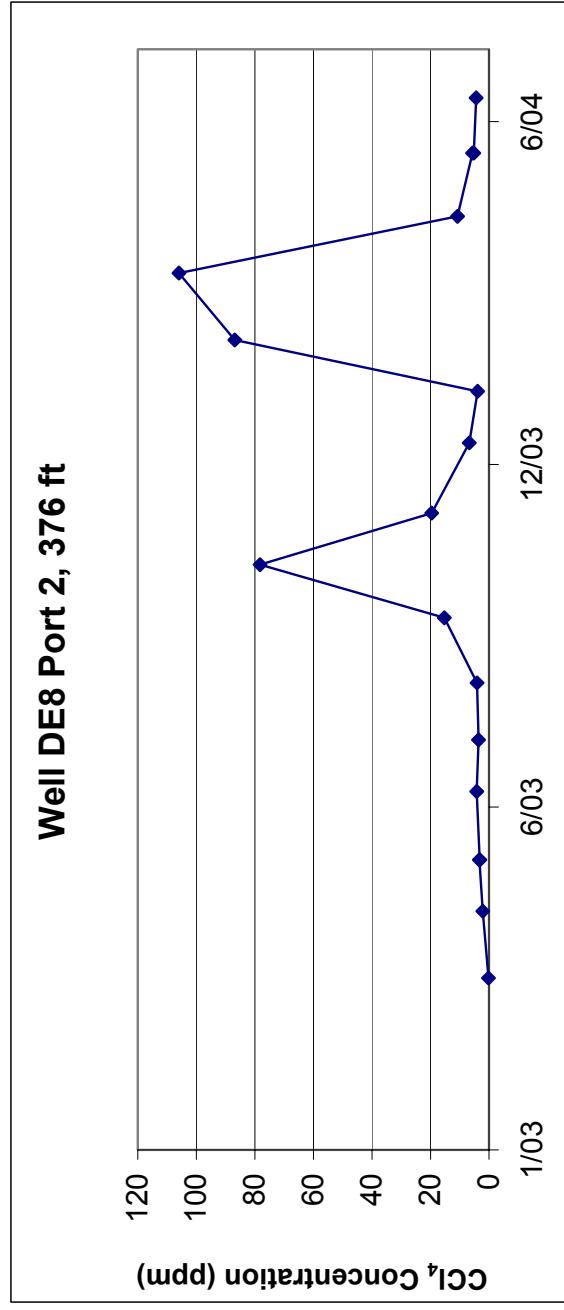


Figure 92. Carbon tetrachloride concentrations (ppmv) for Well Port DE8-2.

Table F-93. Monitoring data for Well DE8-3 from January through June 2004.

Well Port DE8-3	Inside Fence Y	Frequency M	Depth 351 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/7/04 9:22 AM	1/7/04 3:03 PM	2.27E+00	1.96E+00	5.39E-01	2.03E+00	7.45E+00	7.57E+03
2/3/04 8:35 AM	2/3/04 12:38 PM	1.77E+00	1.99E+00	9.17E-01	1.59E+00	6.12E+00	1.09E+04
3/1/04 8:22 AM	3/2/04 12:11 PM	1.64E+01	6.98E+00	1.31E+00	2.25E+01	6.92E+01	8.72E+03
4/5/04 9:56 AM	4/5/04 12:34 PM	2.89E+01	8.75E+00	3.68E+00	4.72E+01	9.62E+01	1.46E+04
5/5/04 7:36 AM	5/5/04 10:25 AM	4.32E+00	2.77E+00	1.58E+00	3.14E+00	9.42E+00	1.13E+04
6/7/04 1:30 PM	6/8/04 2:18 PM	4.09E+00	2.69E+00	6.80E-01	2.17E+00	7.05E+00	1.49E+04

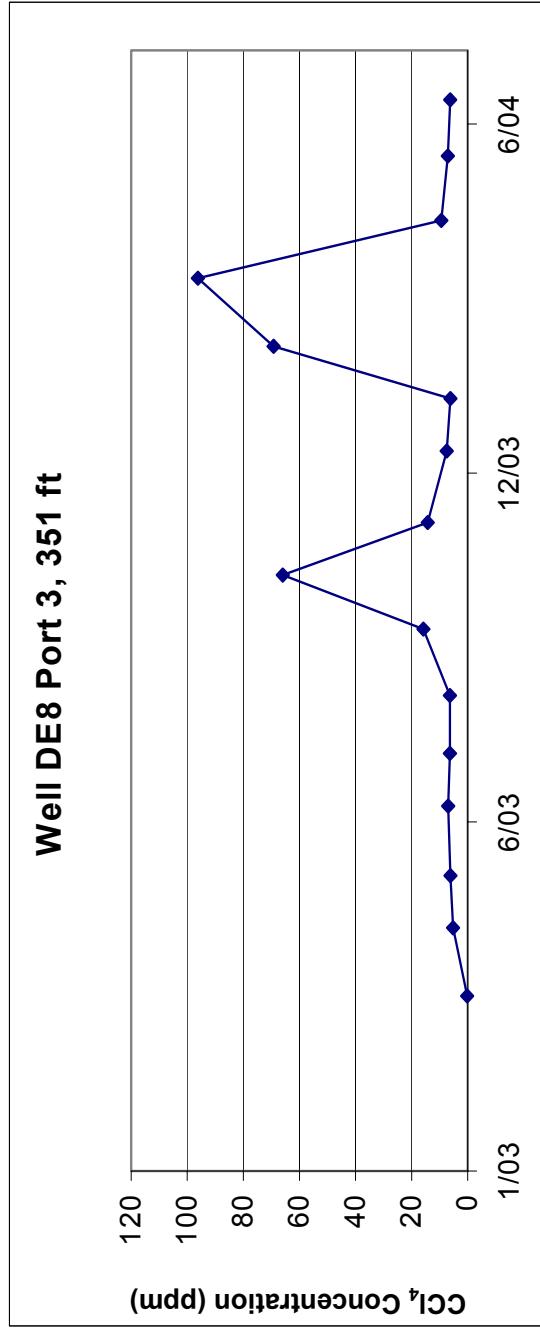


Figure 93. Carbon tetrachloride concentrations (ppmv) for Well Port DE8-3.

Table F-94. Monitoring data for Well DE8-4 from January through June 2004.

Well Port DE8-4	Inside Fence Y	Frequency M	Depth 216 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/7/04 9:22 AM	1/7/04 3:06 PM	6.27E+00	4.70E+00	1.01E+00	7.52E+00	2.57E+01	7.86E+03
2/3/04 8:36 AM	2/3/04 12:41 PM	5.96E+00	4.97E+00	1.50E+00	8.75E+00	2.83E+01	1.06E+04
3/1/04 8:22 AM	3/2/04 12:14 PM	1.89E+01	9.81E+00	1.77E+00	2.46E+01	8.43E+01	9.04E+03
4/5/04 9:57 AM	4/5/04 12:37 PM	2.61E+01	1.04E+01	4.08E+00	4.45E+01	9.51E+01	1.51E+04
5/5/04 7:36 AM	5/5/04 10:29 AM	8.19E+00	5.82E+00	2.18E+00	7.65E+00	2.88E+01	1.20E+04
6/7/04 1:30 PM	6/8/04 2:21 PM	1.08E+01	7.22E+00	1.71E+00	1.39E+01	4.03E+01	1.51E+04

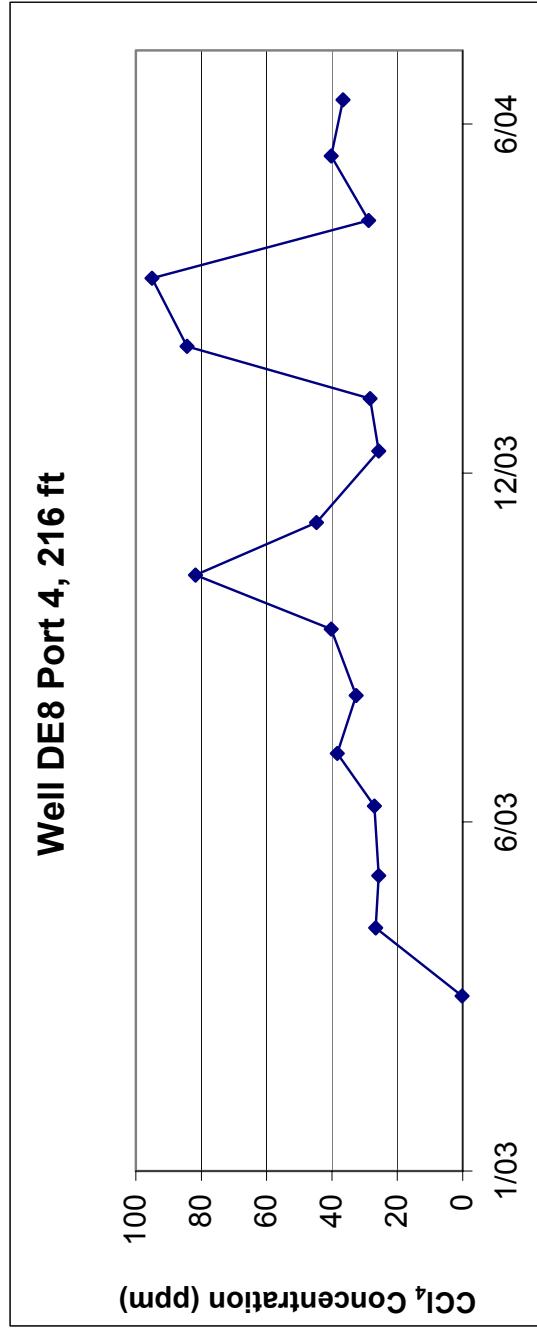


Figure 94. Carbon tetrachloride concentrations (ppm) for Well Port DE8-4.

Table F-95. Monitoring data for Well DE8-5 from January through June 2004.

Well Port DE8-5	Inside Fence Y	Frequency M	Depth 183 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/7/04 9:23 AM	1/7/04 3:08 PM	7.39E+00	4.69E+00	1.02E+00	7.57E+00	2.58E+01	7.55E+03
2/3/04 8:36 AM	2/3/04 12:44 PM	7.20E+00	4.64E+00	1.49E+00	8.41E+00	2.60E+01	1.04E+04
3/1/04 8:22 AM	3/2/04 12:17 PM	1.72E+01	8.16E+00	1.57E+00	2.11E+01	7.05E+01	8.63E+03
4/5/04 9:57 AM	4/5/04 12:40 PM	2.54E+01	9.03E+00	3.85E+00	4.02E+01	8.40E+01	1.44E+04
5/5/04 7:37 AM	5/5/04 10:31 AM	8.41E+00	5.05E+00	1.97E+00	7.22E+00	2.43E+01	1.14E+04
5/5/04 7:37 AM	5/5/04 10:34 AM	8.47E+00	5.04E+00	1.94E+00	7.22E+00	2.43E+01	1.13E+04
6/7/04 1:30 PM	6/8/04 2:24 PM	1.02E+01	5.16E+00	1.38E+00	8.10E+00	2.43E+01	1.49E+04
6/7/04 1:30 PM	6/8/04 2:27 PM	1.04E+01	5.12E+00	1.36E+00	8.04E+00	2.41E+01	1.50E+04

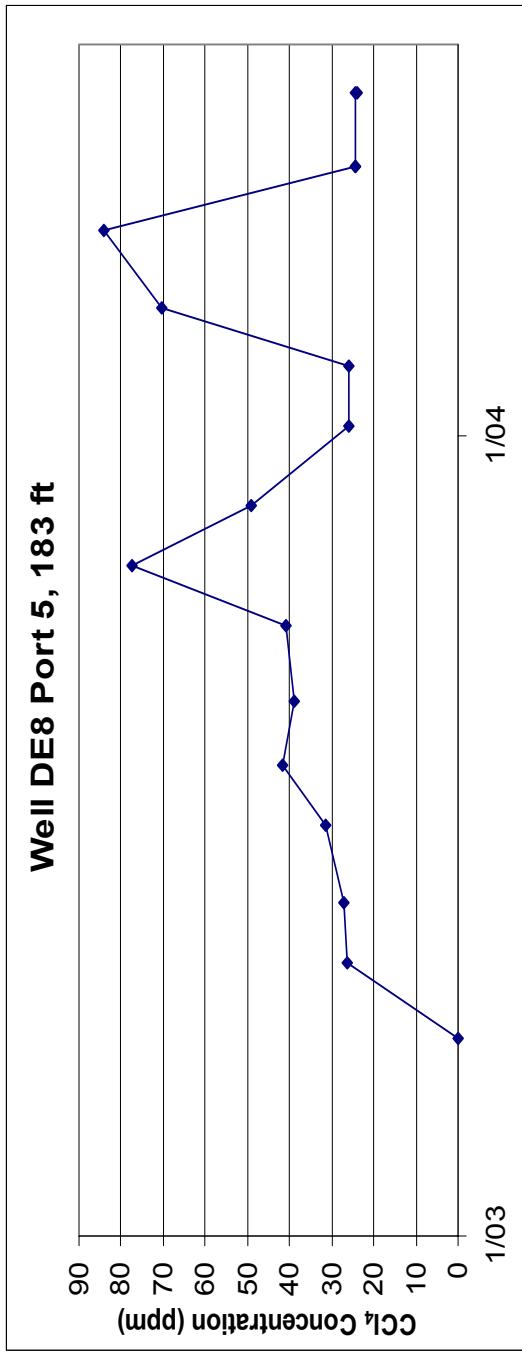


Figure 95. Carbon tetrachloride concentrations (ppmv) for Well Port DE8-5.

Table F-96. Monitoring data for Well IE3-1 from January through June 2004.

Well Port IE3-1	Inside Fence Y	Frequency M	Depth 97 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/7/04 9:41 AM	1/7/04 1:42 PM	1.51E+01	9.17E+00	2.50E+00	1.17E+01	5.67E+01	1.75E+04
2/3/04 8:52 AM	2/3/04 12:11 PM	3.08E+01	1.40E+01	5.93E+00	2.49E+01	9.95E+01	1.25E+04
3/1/04 9:34 AM	3/2/04 1:08 PM	9.14E+00	4.90E+00	1.28E+00	3.38E+00	1.92E+01	8.90E+03
4/5/04 10:18 AM	4/5/04 1:13 PM	4.31E+01	1.65E+01	4.08E+00	4.82E+01	1.54E+02	1.48E+04
5/5/04 7:53 AM	5/5/04 11:22 AM	1.37E+01	7.77E+00	2.09E+00	7.71E+00	4.00E+01	1.04E+04
6/7/04 11:45 AM	6/8/04 1:18 PM	1.63E+01	9.35E+00	2.40E+00	9.00E+00	4.82E+01	1.53E+04

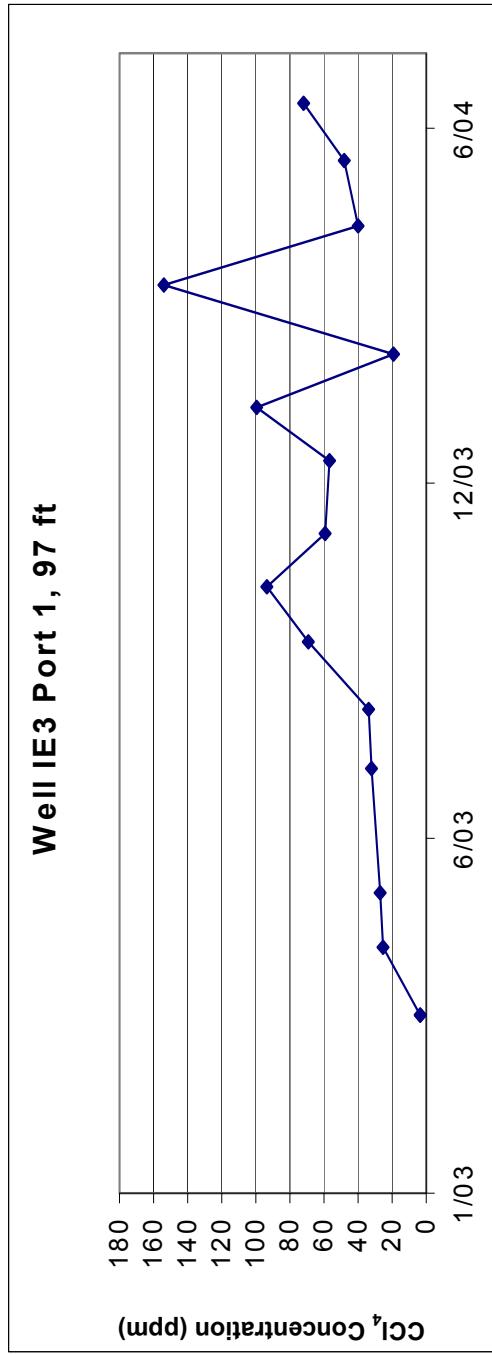


Figure 96. Carbon tetrachloride concentrations (ppmv) for Well Port IE3-1.

Table F-97. Monitoring data for Well IE3-2 from January through June 2004.

Well Port IE3-2	Inside Fence Y	Frequency M	Depth 27 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/7/04 9:41 AM	1/7/04 1:45 PM	1.75E+01	1.16E+01	2.48E+00	1.87E+01	7.45E+01	9.20E+03
2/3/04 8:52 AM	2/3/04 12:14 PM	1.69E+01	1.03E+01	4.69E+00	2.00E+01	6.09E+01	1.11E+04
3/1/04 9:34 AM	3/2/04 1:11 PM	1.08E+01	7.15E+00	6.00E-01	5.29E+00	3.66E+01	8.90E+03
4/5/04 10:18 AM	4/5/04 1:16 PM	2.25E+01	1.01E+01	2.93E+00	3.32E+01	8.33E+01	1.57E+04
5/5/04 7:53 AM	5/5/04 11:25 AM	8.80E+00	5.85E+00	1.36E+00	7.54E+00	2.54E+01	1.21E+04
6/7/04 11:45 AM	6/8/04 1:21 PM	8.99E+00	5.57E+00	1.40E+00	6.81E+00	2.00E+01	1.50E+04

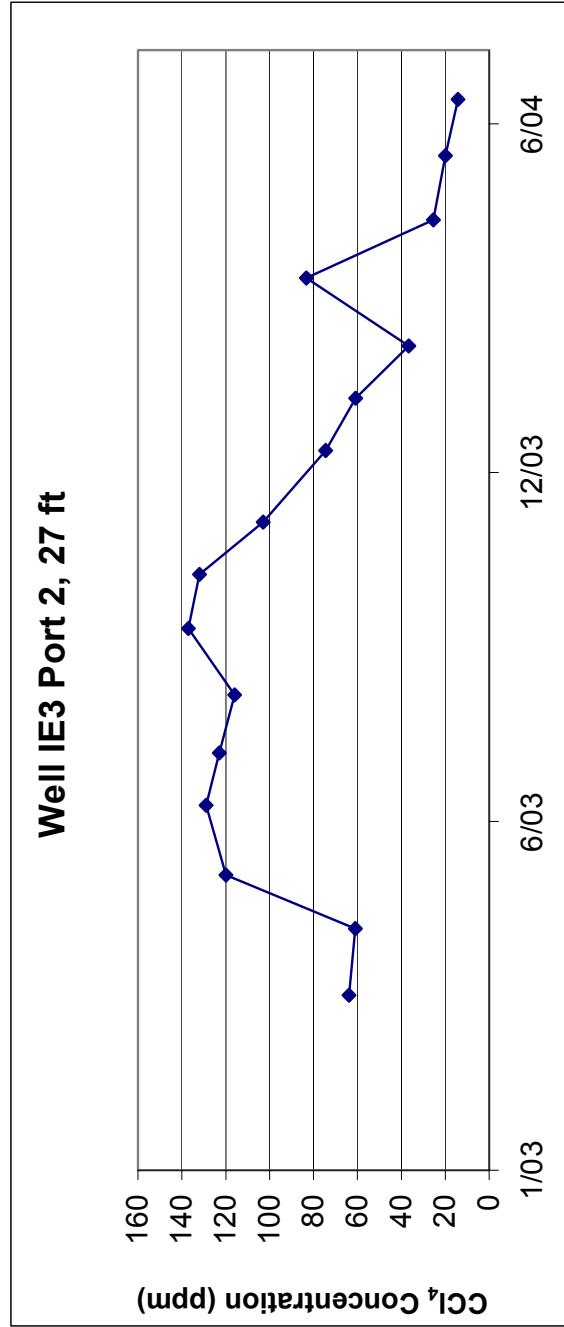


Figure 97. Carbon tetrachloride concentrations (ppm) for Well Port IE3-2.

Table F-98. Monitoring data for Well IE4-1 from January through June 2004.

Well Port IE4-1	Inside Fence Y	Frequency M	Depth 75.5 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/7/04 9:49 AM	1/7/04 2:36 PM	5.54E+01	2.75E+01	5.17E+00	2.53E+01	2.33E+02	9.45E+03
2/3/04 9:02 AM	2/3/04 1:59 PM	8.31E+01	3.74E+01	8.54E+00	5.30E+01	3.65E+02	1.00E+04
3/1/04 10:04 AM	3/2/04 11:26 AM	1.73E+01	6.65E+00	1.23E+00	1.43E+01	5.93E+01	8.86E+03
4/6/04 8:40 AM	4/7/04 10:25 AM	2.48E+00	9.65E-01	1.37E-01	6.85E-01	2.04E+00	1.54E+04
5/10/04 9:51 AM	5/12/04 9:47 AM	7.19E+01	2.79E+01	5.98E+00	4.53E+01	2.38E+02	1.21E+04
6/7/04 1:15 PM	6/8/04 1:39 PM	7.04E+01	2.79E+01	6.70E+00	5.27E+01	2.50E+02	1.51E+04

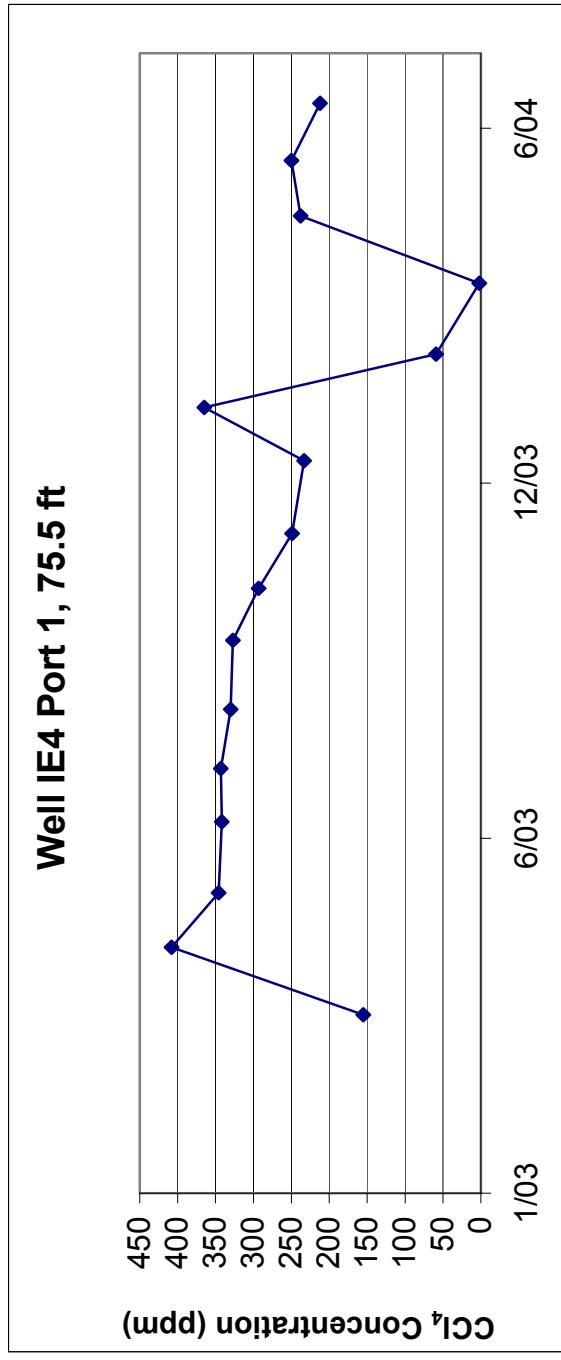


Figure 98. Carbon tetrachloride concentrations (ppmv) for Well Port IE4-1.

Table F-99. Monitoring data for Well IE4-2 from January through June 2004.

Well Port IE4-2	Inside Fence Y	Frequency M	Depth 46.7 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/7/04 9:50 AM	1/7/04 2:42 PM	1.30E+02	5.03E+01	9.75E+00	7.43E+01	5.79E+02	8.15E+03
1/7/04 9:50 AM	1/7/04 2:48 PM	1.30E+02	5.06E+01	9.83E+00	7.53E+01	5.84E+02	8.15E+03
2/3/04 9:02 AM	2/3/04 2:05 PM	1.45E+02	4.87E+01	1.07E+01	9.74E+01	5.01E+02	9.77E+03
3/1/04 10:05 AM	3/2/04 11:29 AM	1.14E+02	3.66E+01	4.70E+00	5.89E+01	3.62E+02	8.83E+03
4/6/04 8:44 AM	4/7/04 10:27 AM	9.76E+01	3.36E+01	6.73E+00	5.65E+01	2.35E+02	1.46E+04
5/10/04 9:51 AM	5/12/04 9:53 AM	6.37E+01	2.56E+01	7.49E+00	3.82E+01	1.26E+02	1.22E+04
6/7/04 1:15 PM	6/8/04 1:42 PM	5.02E+01	2.26E+01	8.68E+00	3.25E+01	9.03E+01	1.51E+04

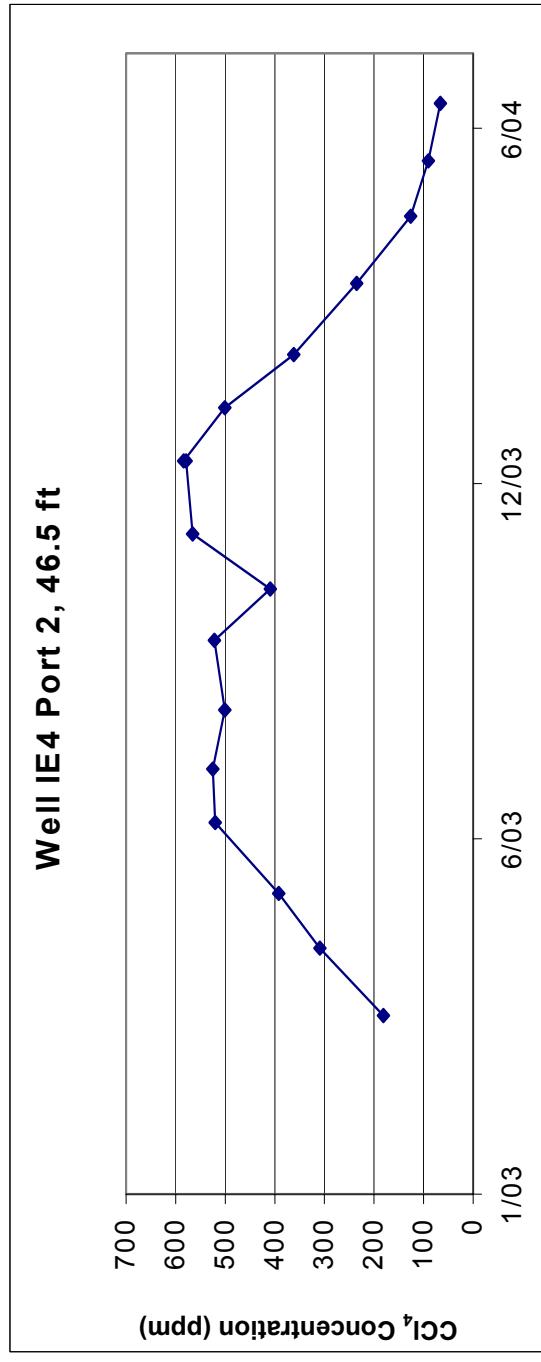


Figure 99. Carbon tetrachloride concentrations (ppmv) for Well Port IE4-2.

Table F-100. Monitoring data for Well IE6-1 from January through June 2004.

Well Port IE6-1	Inside Fence Y	Frequency M	Depth 65.5 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/7/04 10:18 AM	1/7/04 1:24 PM	1.53E+02	6.44E+01	1.34E+01	9.73E+01	5.05E+02	1.04E+04
1/7/04 10:18 AM	1/7/04 1:30 PM	1.52E+02	6.42E+01	1.31E+01	9.68E+01	5.05E+02	9.33E+03
2/3/04 9:34 AM	2/3/04 1:14 PM	1.31E+02	4.74E+01	1.07E+01	9.68E+01	3.88E+02	1.12E+04
3/1/04 10:27 AM	3/1/04 4:19 PM	9.12E+01	3.30E+01	4.40E+00	5.90E+01	2.82E+02	1.03E+04
4/6/04 9:56 AM	4/7/04 10:45 AM	1.16E+02	4.05E+01	4.51E+00	6.50E+01	3.45E+02	1.59E+04
5/4/04 7:38 AM	5/4/04 12:06 PM	5.19E+01	1.67E+01	2.59E+00	2.95E+01	1.04E+02	1.38E+04
6/9/04 12:00 PM	6/10/04 4:03 PM	2.81E+01	1.16E+01	3.24E+00	1.67E+01	4.68E+01	1.66E+04

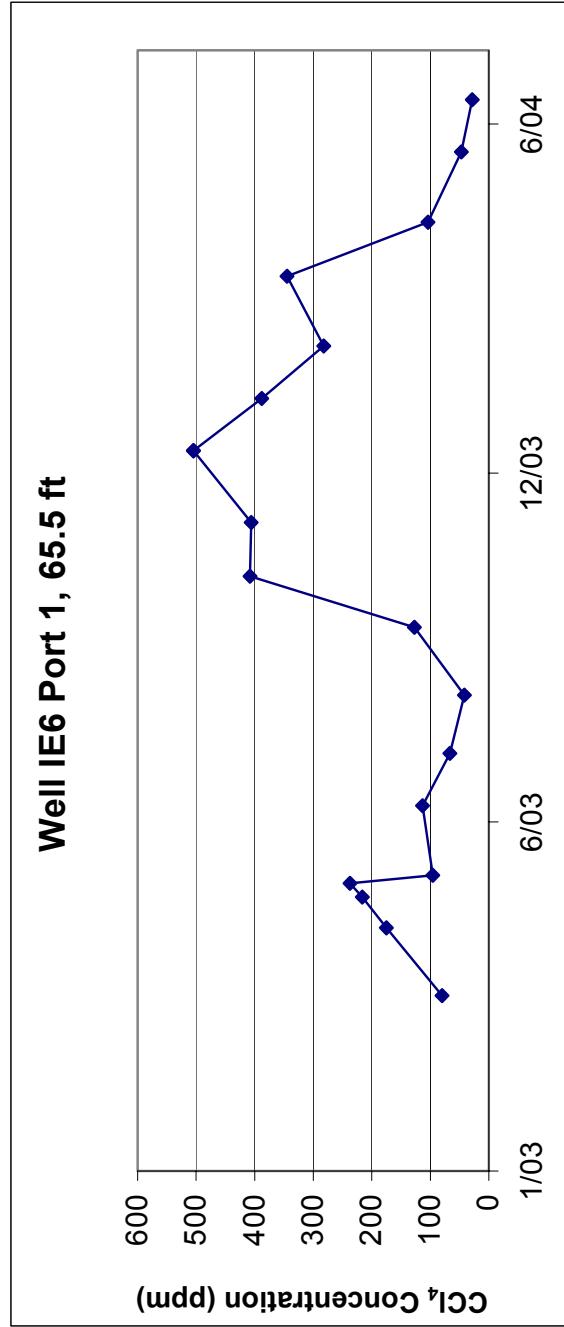


Figure 100. Carbon tetrachloride concentrations (ppmv) for Well Port IE6-1.

Table F-101. Monitoring data for Well IE6-2 from January through June 2004.

Well Port IE6-2	Inside Fence Y	Frequency M	Depth 35.5 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/7/04 10:18 AM	1/7/04 1:36 PM	1.49E+02	1.17E+02	3.22E+01	1.01E+02	4.17E+02	8.57E+03
2/3/04 9:34 AM	2/3/04 1:20 PM	1.61E+02	1.38E+02	4.21E+01	1.16E+02	4.02E+02	1.01E+04
3/1/04 4:25 PM	3/1/04 4:25 PM	1.27E+02	7.74E+01	1.55E+01	8.00E+01	3.01E+02	1.05E+04
4/6/04 9:57 AM	4/7/04 10:51 AM	9.69E+01	7.10E+01	1.58E+01	5.70E+01	2.12E+02	1.62E+04
6/9/04 12:00 PM	6/10/04 4:06 PM	2.14E+01	1.69E+01	6.93E+00	1.53E+01	5.56E+01	1.96E+04

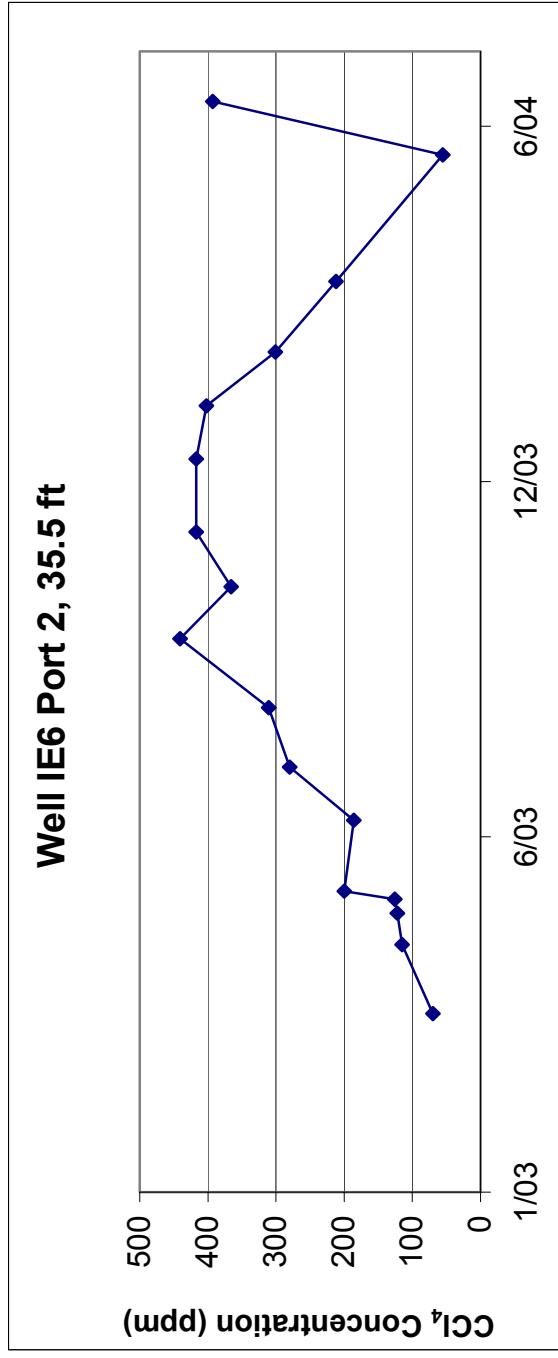


Figure 101. Carbon tetrachloride concentrations (ppmv) for Well Port IE6-2.

Table F-102. Monitoring data for Well IE7-1 from January through June 2004.

Well Port IE7-1	Inside Fence Y	Frequency M	Depth 73.5 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/7/04 10:00 AM	1/7/04 3:11 PM	7.51E+02	1.78E+02	2.39E+01	2.99E+02	2.39E+03	1.30E+04
2/3/04 9:25 AM	2/3/04 1:26 PM	9.87E+02	2.23E+02	3.74E+01	4.67E+02	3.36E+03	1.04E+04
3/1/04 10:16 AM	3/1/04 2:49 PM	7.29E+02	1.77E+02	2.46E+01	2.02E+02	2.18E+03	1.22E+04
4/5/04 9:15 AM	4/5/04 3:02 PM	7.91E+02	1.95E+02	2.37E+01	3.12E+02	2.67E+03	1.40E+04
5/10/04 9:35 AM	5/12/04 11:20 AM	2.71E+02	3.40E+01	1.47E+00	1.27E+02	3.55E+02	1.25E+04

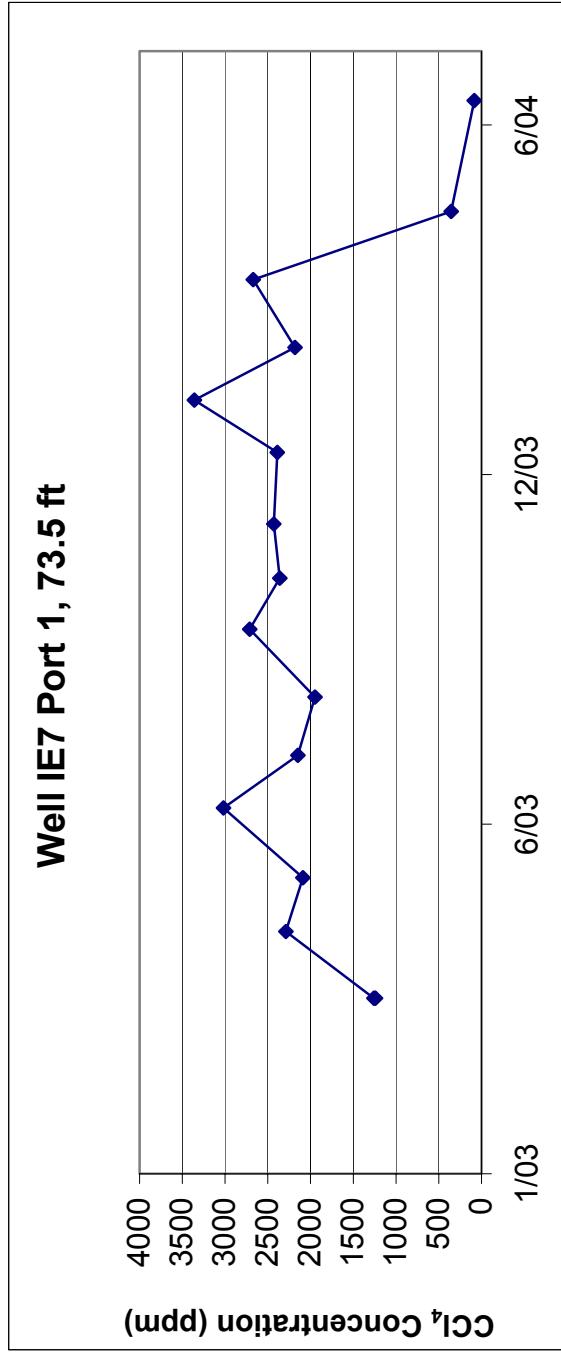


Figure 102. Carbon tetrachloride concentrations (ppmv) for Well Port IE7-1.

Table F-103. Monitoring data for Well IE7-2 from January through June 2004.

Well Port IE7-2	Inside Fence Y	Frequency M	Depth 45.5 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/7/04 10:00 AM	1/7/04 3:17 PM	2.49E+02	6.57E+01	7.93E+00	1.96E+02	7.89E+02	9.59E+03
2/3/04 9:25 AM	2/3/04 1:32 PM	2.27E+02	5.95E+01	9.61E+00	2.03E+02	7.13E+02	1.05E+04
3/1/04 10:18 AM	3/1/04 2:55 PM	3.37E+02	8.44E+01	1.08E+01	2.37E+02	1.08E+03	2.46E+04
4/5/04 9:17 AM	4/7/04 8:19 AM	1.26E+02	2.65E+01	7.35E+00	1.41E+02	3.83E+02	1.51E+04
5/10/04 9:35 AM	5/12/04 11:26 AM	4.46E+01	7.71E+00	1.20E+00	4.05E+01	7.55E+01	1.25E+04

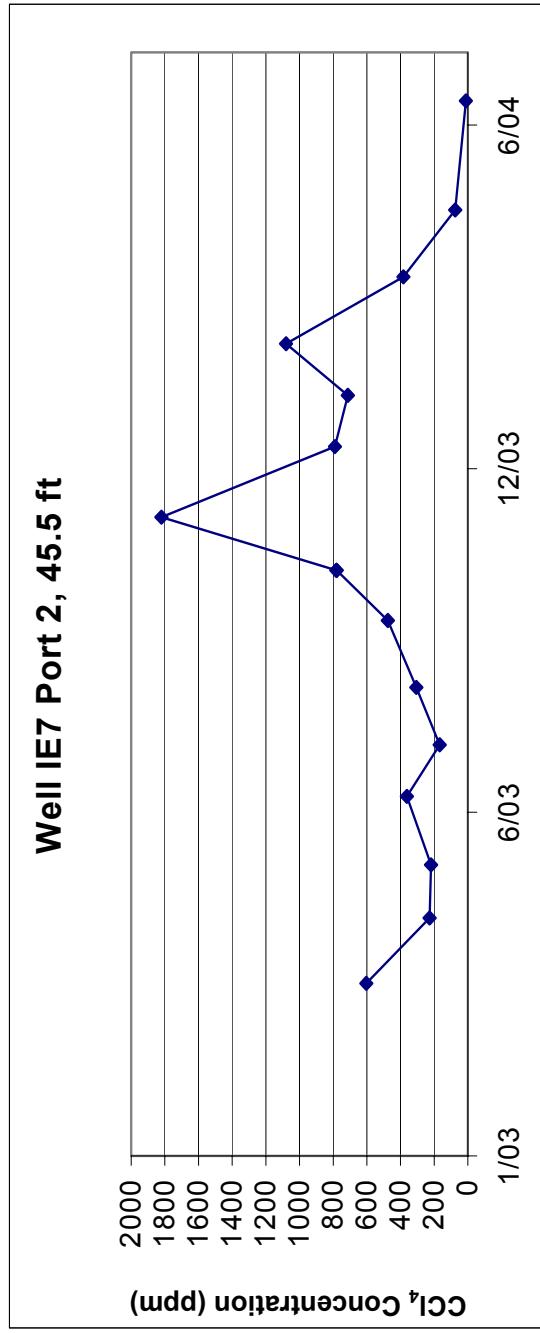


Figure 103. Carbon tetrachloride concentrations (ppmv) for Well Port IE7-2.

Table F-104. Monitoring data for Well IE8-1 from January through June 2004.

Well Port IE8-1	Inside Fence Y	Frequency M	Depth 79 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
2/3/04 8:39 AM	2/3/04 12:53 PM	2.07E+01	6.95E+00	3.03E+00	2.73E+01	6.57E+01	1.05E+04
2/3/04 8:39 AM	2/3/04 12:56 PM	2.01E+01	6.69E+00	2.92E+00	2.67E+01	6.37E+01	1.05E+04
3/1/04 8:33 AM	3/2/04 11:47 AM	5.05E+01	3.10E+01	4.77E+00	4.48E+01	2.93E+02	8.69E+03
4/5/04 10:00 AM	4/5/04 12:16 PM	4.60E+01	1.87E+01	7.27E+00	6.73E+01	2.11E+02	1.50E+04
5/5/04 7:40 AM	5/5/04 10:13 AM	1.14E+01	4.64E+00	3.52E+00	1.07E+01	2.35E+01	1.17E+04
6/7/04 1:30 PM	6/8/04 2:03 PM	5.44E+00	3.02E+00	1.15E+00	4.77E+00	7.95E+00	1.52E+04

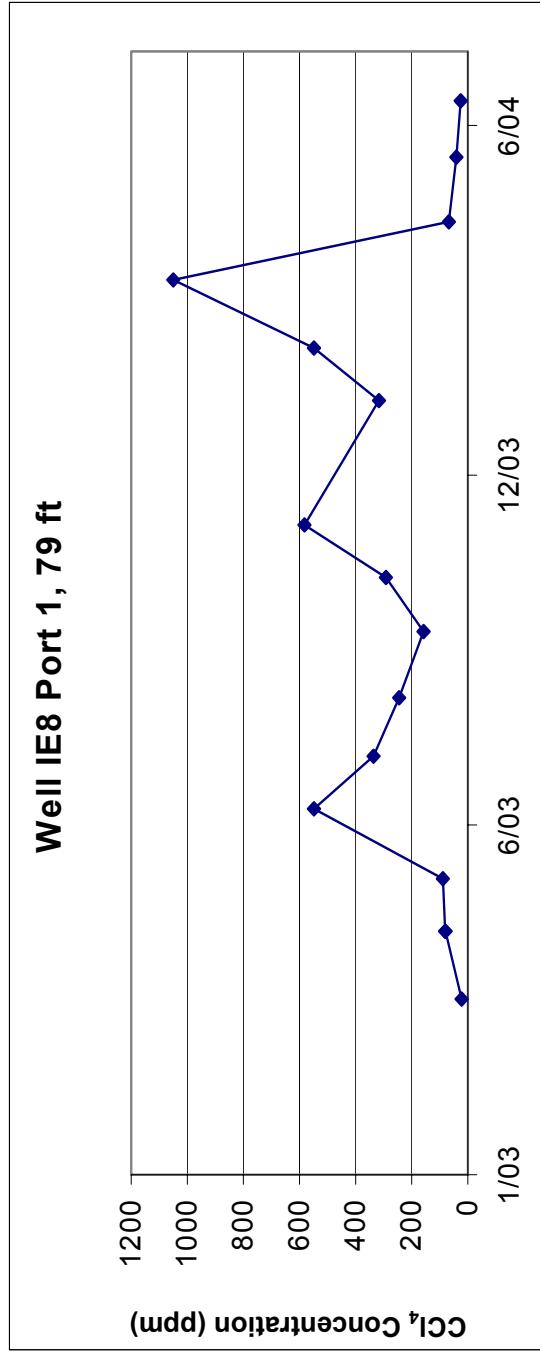


Figure 104. Carbon tetrachloride concentrations (ppmv) for Well Port IE8-1.

Table F-105. Monitoring data for Well IE8-2 from January through June 2004.

Well Port IE8-2	Inside Fence Y	Frequency M	Depth 28 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
2/3/04 8:39 AM	2/3/04 12:53 PM	2.07E+01	6.95E+00	3.03E+00	2.73E+01	6.57E+01	1.05E+04
2/3/04 8:39 AM	2/3/04 12:56 PM	2.01E+01	6.69E+00	2.92E+00	2.67E+01	6.37E+01	1.05E+04
3/1/04 8:33 AM	3/2/04 11:47 AM	5.05E+01	3.10E+01	4.77E+00	4.48E+01	2.93E+02	8.69E+03
4/5/04 10:00 AM	4/5/04 12:16 PM	4.60E+01	1.87E+01	7.27E+00	6.73E+01	2.11E+02	1.50E+04
5/5/04 7:40 AM	5/5/04 10:13 AM	1.14E+01	4.64E+00	3.52E+00	1.07E+01	2.35E+01	1.17E+04
6/7/04 1:30 PM	6/8/04 2:03 PM	5.44E+00	3.02E+00	1.15E+00	4.77E+00	7.95E+00	1.52E+04

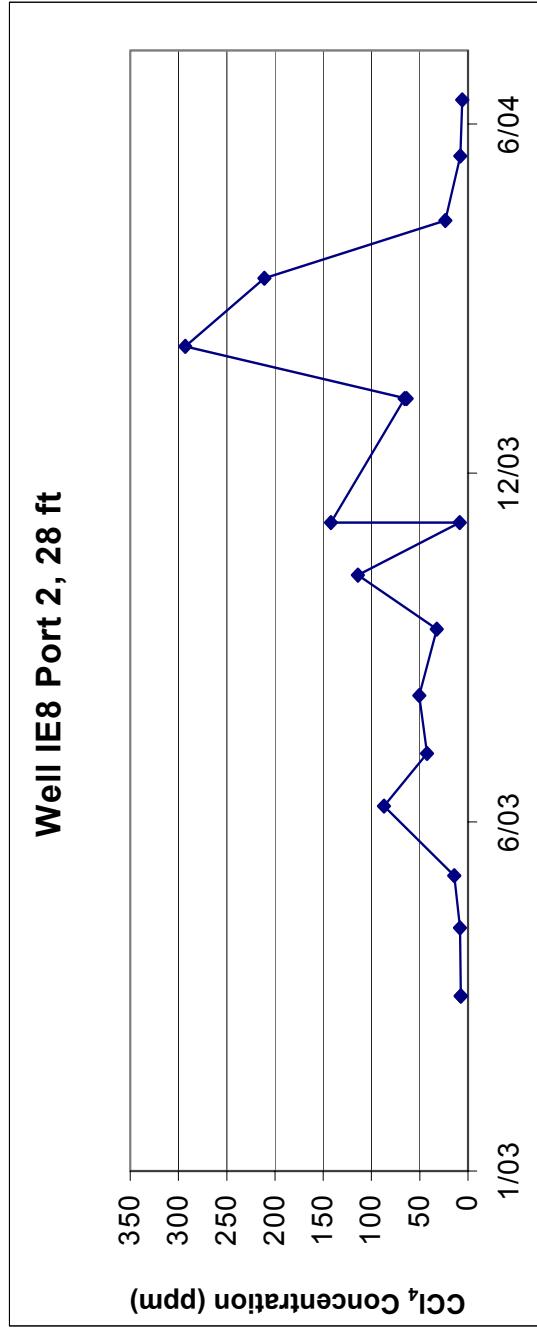


Figure 105. Carbon tetrachloride concentrations (ppmv) for Well Port IE8-2.

Table F-106. Monitoring data for Well M17S-1 from January through June 2004.

Well Port M17S-1	Inside Fence Y	Frequency M	Depth 573 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/8/04 10:30 AM	1/8/04 2:58 PM	4.34E+00	1.28E+00	5.61E-01	8.68E+00	1.53E+01	8.52E+03
2/3/04 4:25 PM	2/4/04 10:27 AM	7.38E+00	2.63E+00	2.57E+00	1.25E+01	2.67E+01	1.14E+04
2/3/04 4:25 PM	2/4/04 10:30 AM	7.36E+00	2.66E+00	2.27E+00	1.26E+01	2.69E+01	1.15E+04
3/1/04 9:09 AM	3/1/04 4:13 PM	7.91E+01	1.86E+01	2.07E+00	1.06E+02	2.66E+02	1.11E+04
4/6/04 12:06 PM	4/7/04 9:22 AM	2.49E+00	1.20E+00	4.61E-01	1.33E+00	3.08E+00	1.51E+04
5/10/04 9:12 AM	5/12/04 10:36 AM	4.50E+00	1.23E+00	3.70E-01	4.15E+00	6.84E+00	1.22E+04

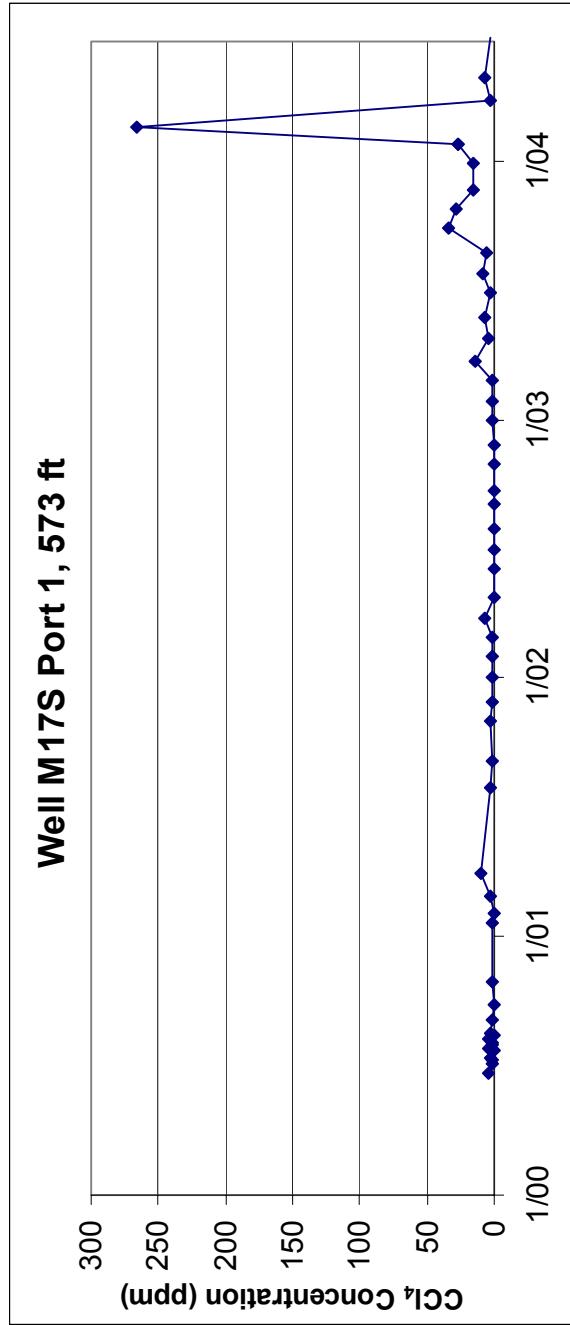


Figure 106. Carbon tetrachloride concentrations (ppmv) for Well Port M17S-1.

Table F-107. Monitoring data for Well WWW1-1 from January through June 2004.

Well Port WWW1-1	Inside Fence N	Frequency Q	Depth 240 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
3/2/04 9:34 AM	3/4/04 12:51 PM	2.43E+00	1.60E+00	4.35E-01	7.47E-01	3.50E+00	8.13E+03
6/9/04 12:02 PM	6/10/04 3:24 PM	3.73E+00	2.73E+00	5.59E-01	1.29E+00	7.03E+00	1.68E+04

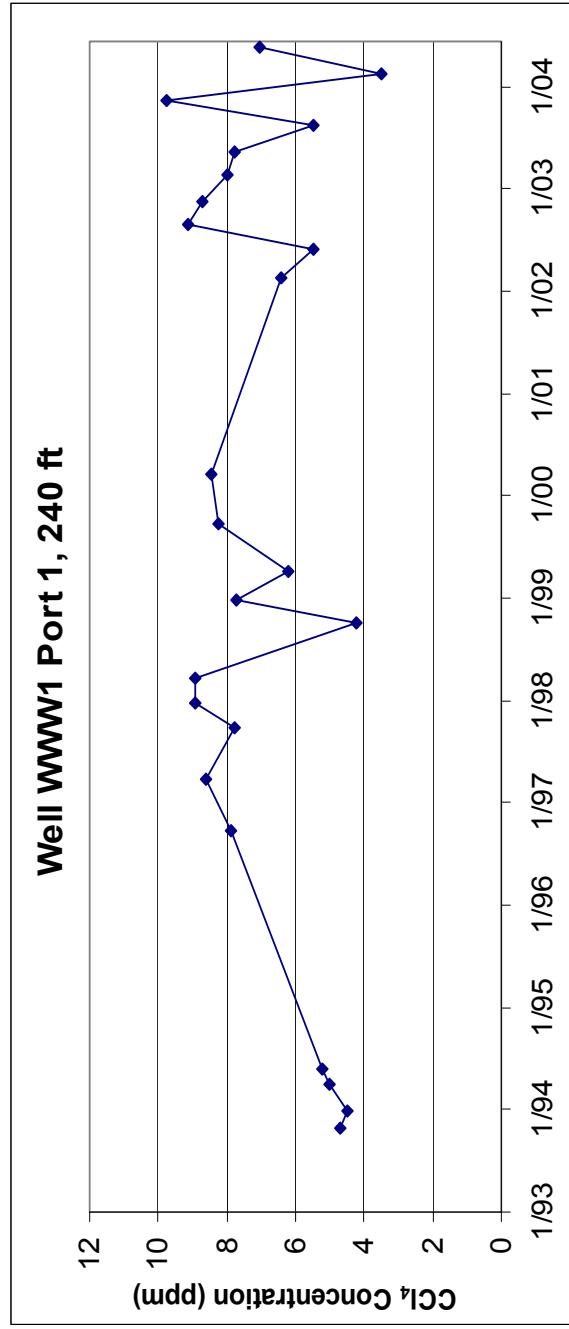


Figure 107. Carbon tetrachloride concentrations (ppmv) for Well Port WWW1-1.

Table F-108. Monitoring data for Well WWW1-3 from January through June 2004.

Sample Date and Time	Analysis Date and Time	Well Port		Inside Fence		Frequency		Depth		
		WWW1-3	N	Q		CHCl ₃	TCA	PCE	TCE	CCl ₄
3/2/04 9:35 AM	3/4/04 12:57 PM					1.29E+00	8.05E-01	2.18E-01	4.01E-01	1.24E+00
6/9/04 12:12 PM	6/10/04 3:27 PM					3.52E+00	2.06E+00	3.46E-01	1.03E+00	2.93E+00

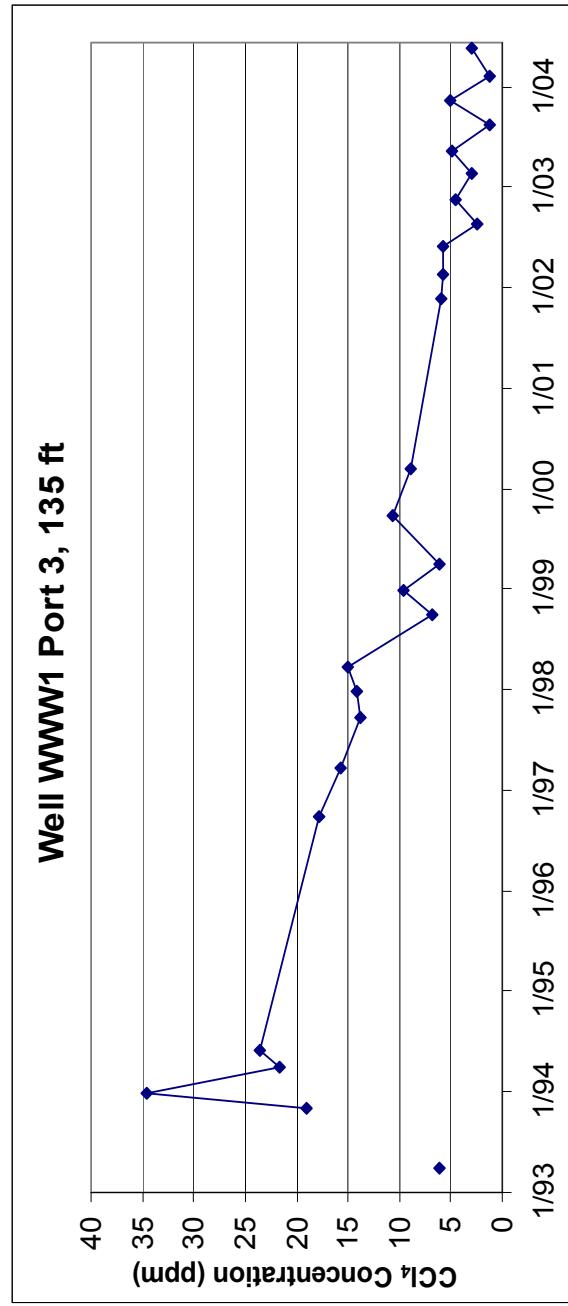


Figure 108. Carbon tetrachloride concentrations (ppmv) for Well Port WWW1-3.

Table F-109. Monitoring data for Well WWW1-5 from January through June 2004.

Well Port WWW1-5	Inside Fence		Frequency Q	Depth 74 ft
	N	W		
			CHCl ₃ (ppmv)	TCA (ppmv)
Sample Date and Time	Analysis Date and Time		1.90E+00	3.10E-01
3/2/04 9:36 AM	3/4/04 12:54 PM		1.19E+00	6.40E-01
6/9/04 12:12 PM	6/10/04 3:30 PM		3.40E+00	2.17E+00

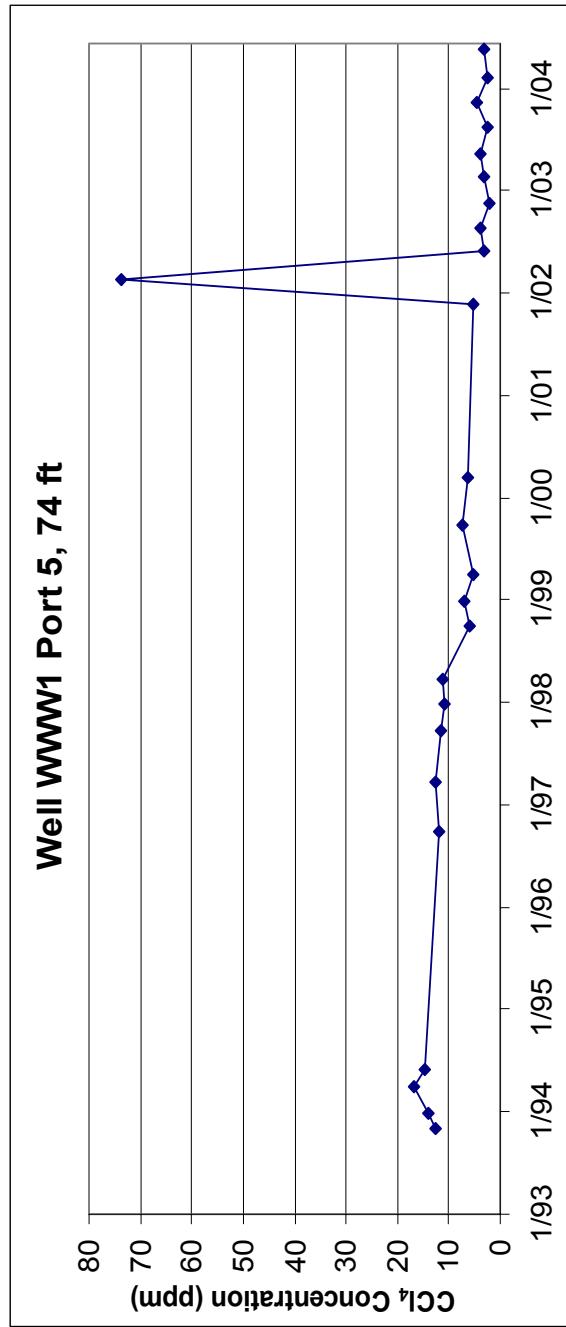


Figure 109. Carbon tetrachloride concentrations (ppmv) for Well Port WWW1-5.

Table F-110. Monitoring data for Well 77.1-2 from January through June 2004.

Well Port 77.1-2	Inside Fence N	Frequency M	Depth 190 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/12/04 12:52 PM	1/12/04 4:36 PM	6.08E+00	6.55E+00	7.03E+01	5.52E+00	3.59E+00	7.68E+03
2/2/04 10:37 AM	2/2/04 1:13 PM	4.44E+00	3.24E+00	7.32E+01	5.11E+00	2.88E+00	6.69E+03
3/2/04 11:24 AM	3/2/04 3:54 PM	4.13E+00	2.45E+00	6.78E+01	5.03E+00	3.11E+00	9.77E+03
4/8/04 11:06 AM	4/8/04 2:11 PM	5.09E+00	3.82E+00	6.81E+01	4.92E+00	2.51E+00	1.64E+04
5/3/04 11:02 AM	5/4/04 10:15 AM	6.09E+00	5.49E+00	7.35E+01	5.60E+00	5.00E+00	1.30E+04
6/14/04 3:00 PM	6/15/04 3:07 PM	6.58E+00	7.95E+00	6.75E+01	5.33E+00	6.74E+00	1.17E+04

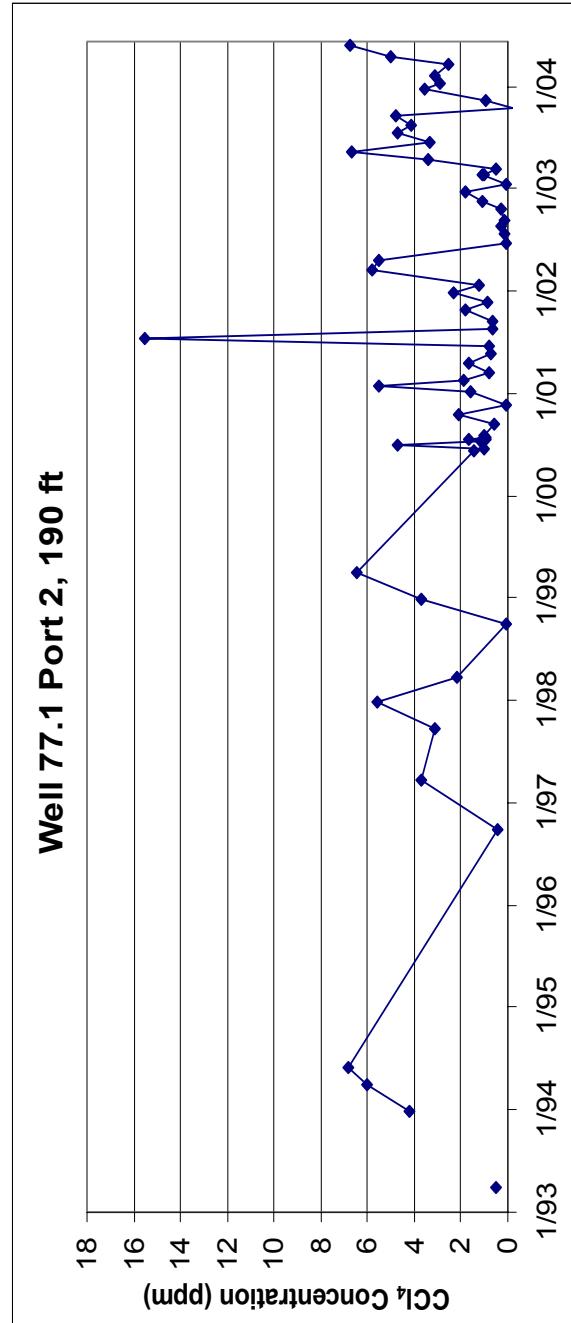


Figure 110. Carbon tetrachloride concentrations (ppmv) for Well Port 77.1-2.

Table F-111. Monitoring data for Well 77.1-4 from January through June 2004.

Well Port 77.1-4	Inside Fence N	Frequency M	Depth 111 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/12/04 12:52 PM	1/12/04 4:39 PM	3.04E+00	2.56E+00	2.46E+01	2.84E+00	9.18E-02	7.64E+03
2/2/04 10:37 AM	2/2/04 1:16 PM	5.60E+00	4.40E+00	7.06E+01	6.12E+00	6.67E+00	6.62E+03
3/2/04 11:24 AM	3/2/04 3:57 PM	6.02E+00	4.84E+00	5.81E+01	5.58E+00	8.95E+00	1.00E+04
4/8/04 11:06 AM	4/8/04 2:15 PM	7.36E+00	6.59E+00	5.60E+01	5.82E+00	8.53E+00	1.62E+04
5/3/04 11:02 AM	5/4/04 10:18 AM	9.32E+00	1.03E+01	5.29E+01	7.20E+00	1.31E+01	1.32E+04
6/14/04 3:00 PM	6/15/04 3:10 PM	3.10E+00	2.54E+00	6.35E+00	1.05E+00	4.91E-01	1.16E+04

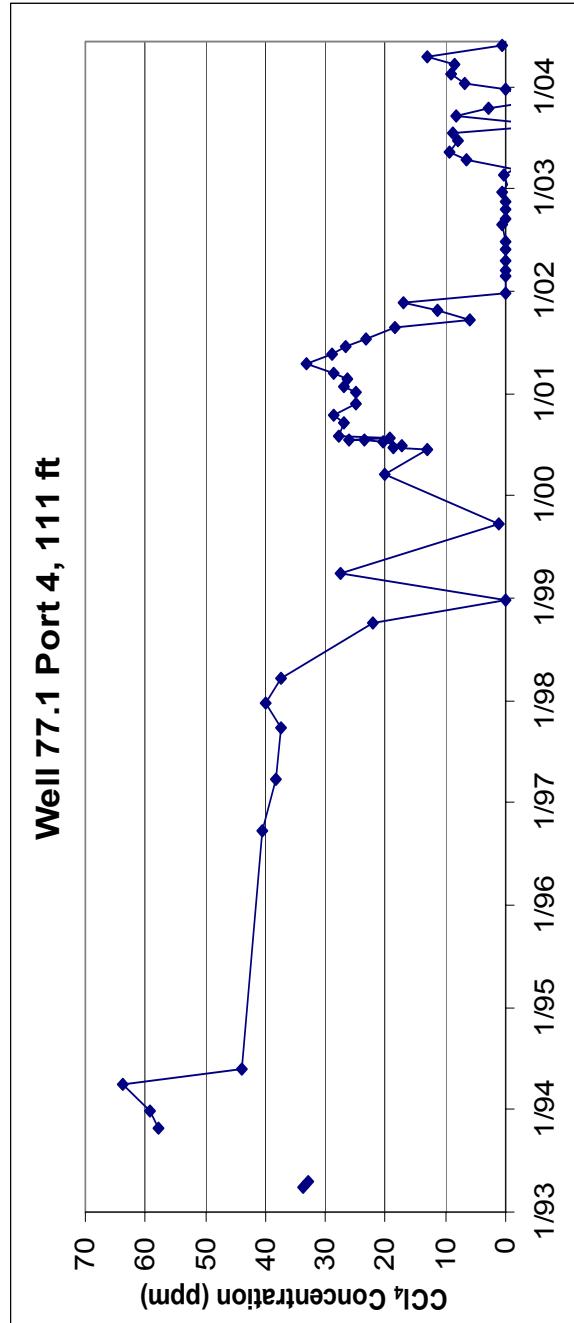


Figure 111. Carbon tetrachloride concentrations (ppmv) for Well Port 77.1-4.

Table F-112. Monitoring data for Well 77.1-6 from January through June 2004.

Well Port 77.1-6	Inside Fence N	Frequency M	Depth 64 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/12/04 12:52 PM	1/12/04 4:41 PM	4.95E+00	6.94E+00	3.94E+00	3.50E+00	1.08E+01	7.86E+03
2/2/04 10:38 AM	2/2/04 1:19 PM	4.41E+00	4.75E+00	6.11E+00	3.81E+00	1.20E+01	6.53E+03
3/2/04 11:25 AM	3/2/04 4:00 PM	4.66E+00	5.02E+00	4.08E+00	3.13E+00	1.19E+01	1.01E+04
4/8/04 11:06 AM	4/8/04 2:17 PM	4.94E+00	4.84E+00	2.98E+00	3.40E+00	1.11E+01	1.61E+04
5/3/04 11:03 AM	5/4/04 10:21 AM	6.02E+00	7.10E+00	4.41E+00	4.34E+00	1.22E+01	1.30E+04
5/3/04 11:03 AM	5/4/04 10:24 AM	5.91E+00	7.06E+00	4.03E+00	4.35E+00	1.21E+01	1.31E+04
6/14/04 3:00 PM	6/15/04 3:13 PM	5.36E+00	4.36E+00	2.67E+00	4.16E+00	1.01E+01	1.16E+04

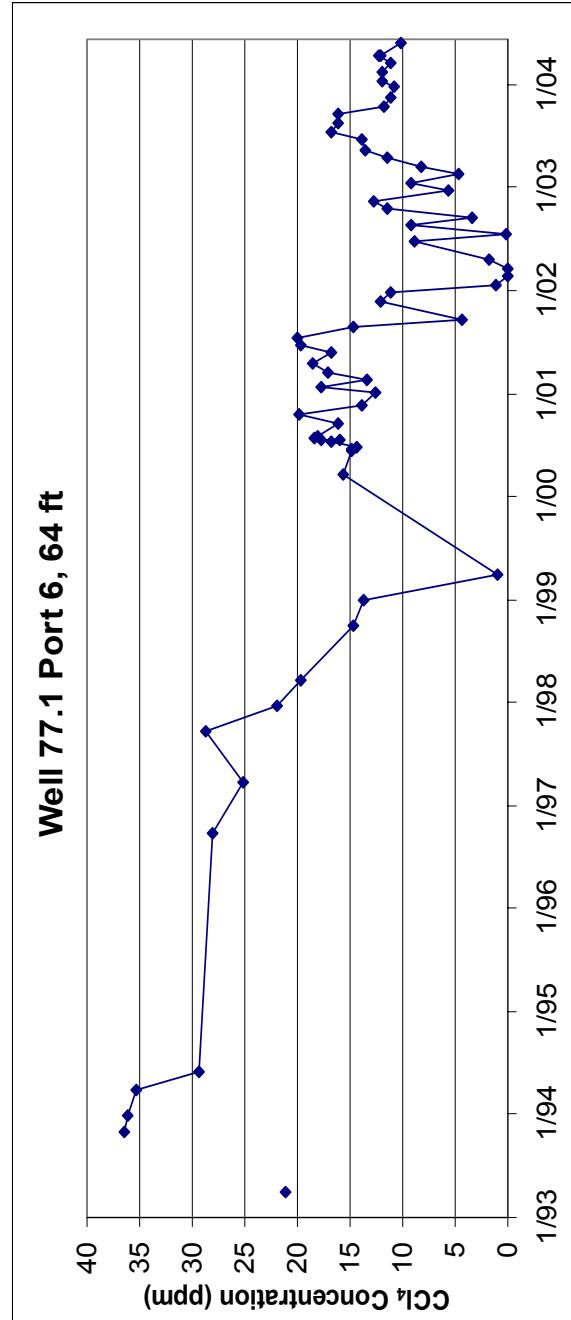


Figure 112. Carbon tetrachloride concentrations (ppmv) for Well Port 77.1-6.

Table F-113. Monitoring data for Well 78.4-1 from January through June 2004.

Well Port 78.4-1	Inside Fence N	Frequency M	Depth 333 ft	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/12/04 12:27 PM	1/12/04 4:06 PM	2.09E+00	2.17E+00	7.90E-01	1.73E+00	6.09E+00	6.09E+00	9.70E+03	
1/12/04 12:27 PM	1/12/04 4:09 PM	2.02E+00	2.10E+00	7.52E-01	1.77E+00	5.86E+00	5.86E+00	8.58E+03	
2/2/04 10:40 AM	2/2/04 1:33 PM	1.75E+00	2.00E+00	6.57E-01	9.48E-01	3.58E+00	3.58E+00	6.71E+03	
2/2/04 10:40 AM	2/2/04 1:36 PM	1.79E+00	2.18E+00	6.57E-01	1.06E+00	4.20E+00	4.20E+00	6.51E+03	
3/2/04 11:21 AM	3/2/04 3:42 PM	1.73E+00	1.94E+00	3.71E-01	8.61E-01	3.76E+00	3.76E+00	9.41E+03	
3/2/04 11:21 AM	3/2/04 3:45 PM	1.59E+00	2.24E+00	3.67E-01	9.34E-01	4.33E+00	4.33E+00	9.43E+03	
4/8/04 11:08 AM	4/8/04 1:59 PM	3.33E+00	3.40E+00	1.02E+00	2.02E+00	5.96E+00	5.96E+00	1.66E+04	
4/8/04 11:08 AM	4/8/04 2:02 PM	3.05E+00	3.21E+00	8.78E-01	1.75E+00	5.63E+00	5.63E+00	1.65E+04	
5/3/04 11:04 AM	5/4/04 10:27 AM	2.92E+00	2.84E+00	1.16E+00	1.48E+00	4.61E+00	4.61E+00	1.30E+04	
5/3/04 11:04 AM	5/4/04 10:30 AM	2.93E+00	2.94E+00	1.05E+00	1.43E+00	5.04E+00	5.04E+00	1.30E+04	
6/14/04 3:05 PM	6/15/04 3:16 PM	3.59E+00	3.09E+00	6.27E-01	1.38E+00	4.79E+00	4.79E+00	1.14E+04	
6/14/04 3:05 PM	6/15/04 3:19 PM	3.37E+00	3.21E+00	5.73E-01	1.37E+00	4.77E+00	4.77E+00	1.15E+04	

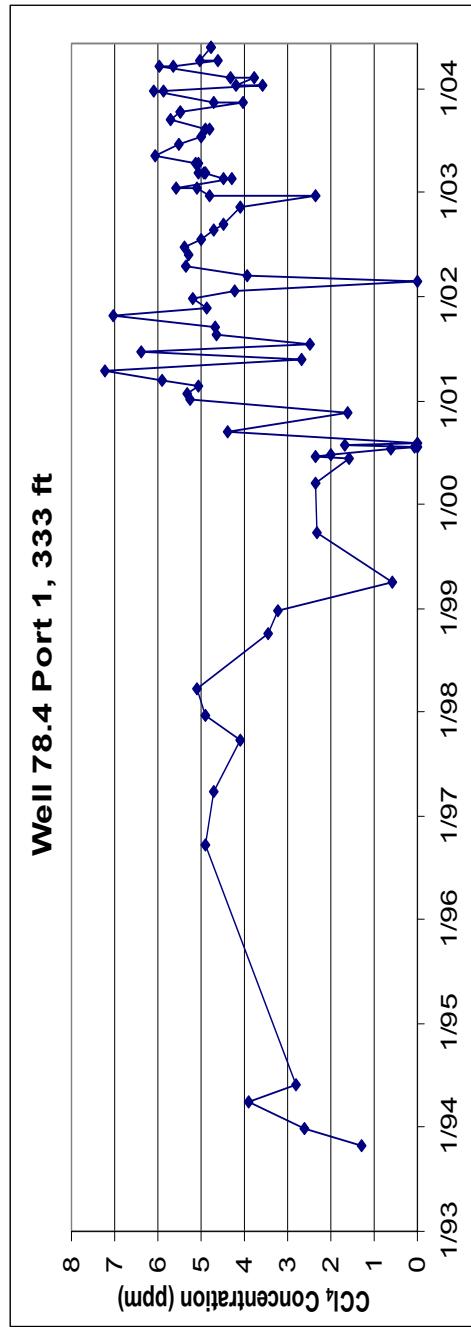


Figure 113. Carbon tetrachloride concentrations (ppmv) for Well Port 78.4-1.

Table F-114. Monitoring data for Well 78.4-2 from January through June 2004.

Well Port 78.4-2	Inside Fence N	Frequency M	Depth 251 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/12/04 12:27 PM	1/12/04 4:12 PM	2.17E+00	2.01E+00	2.63E+00	1.51E+00	5.07E+00	7.96E+03
2/2/04 10:41 AM	2/2/04 1:40 PM	1.83E+00	1.70E+00	2.46E+00	8.59E-01	3.68E+00	6.46E+03
3/2/04 11:22 AM	3/2/04 3:48 PM	1.92E+00	1.81E+00	2.08E+00	9.22E-01	3.81E+00	9.10E+03
4/8/04 11:09 AM	4/8/04 2:05 PM	2.95E+00	2.51E+00	2.52E+00	1.34E+00	4.91E+00	1.65E+04
5/3/04 11:04 AM	5/4/04 10:33 AM	2.83E+00	2.34E+00	2.81E+00	1.09E+00	4.45E+00	1.29E+04
6/14/04 3:15 PM	6/15/04 3:25 PM	3.61E+00	2.51E+00	2.31E+00	9.62E-01	4.13E+00	1.16E+04

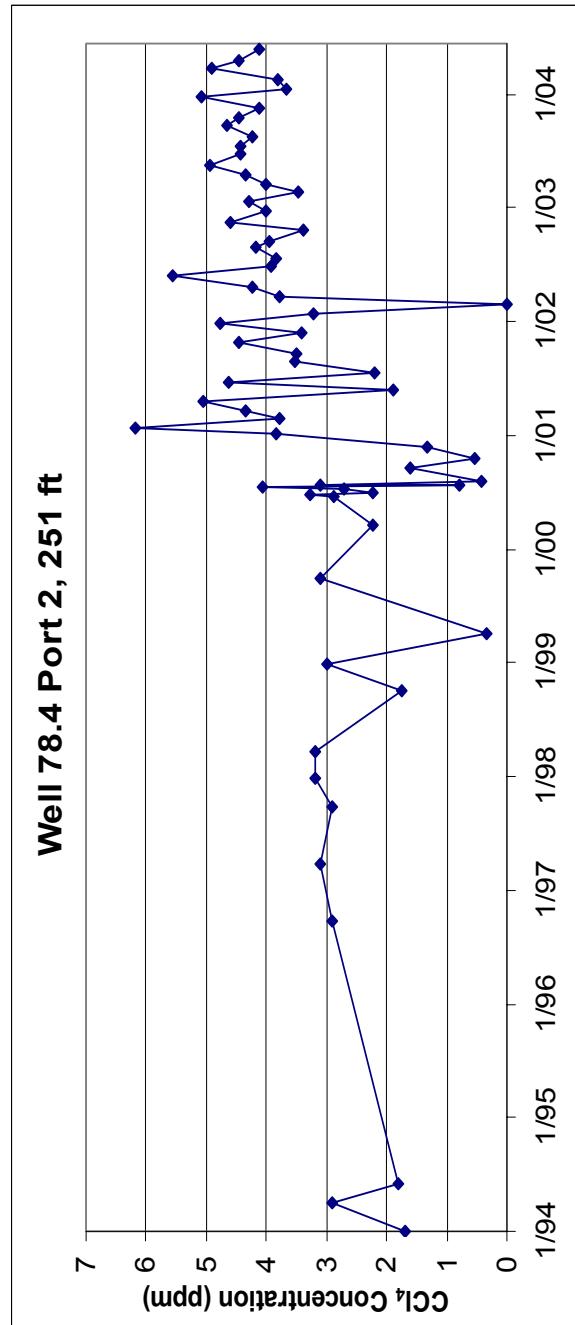


Figure 114. Carbon tetrachloride concentrations (ppmv) for Well Port 78.4-2.

Table F-115. Monitoring data for Well 78.4-5 from January through June 2004.

Well Port 78.4-5	Inside Fence N	Frequency M	Depth 77 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/12/04 12:29 PM	1/12/04 4:15 PM	3.11E+00	2.28E+00	4.65E+00	3.07E+00	9.31E+00	8.10E+03
2/2/04 10:42 AM	2/2/04 1:42 PM	3.26E+00	2.45E+00	4.89E+00	2.79E+00	9.25E+00	6.53E+03
3/2/04 11:23 AM	3/2/04 3:51 PM	3.20E+00	2.40E+00	4.26E+00	2.20E+00	8.95E+00	9.47E+03
4/8/04 11:09 AM	4/8/04 2:08 PM	3.89E+00	2.64E+00	3.45E+00	2.50E+00	8.61E+00	1.63E+04
5/3/04 11:05 AM	5/4/04 10:36 AM	4.49E+00	3.00E+00	5.67E+00	3.53E+00	1.07E+01	1.31E+04
6/14/04 3:10 PM	6/15/04 3:22 PM	5.33E+00	2.96E+00	4.66E+00	3.46E+00	9.62E+00	1.18E+04

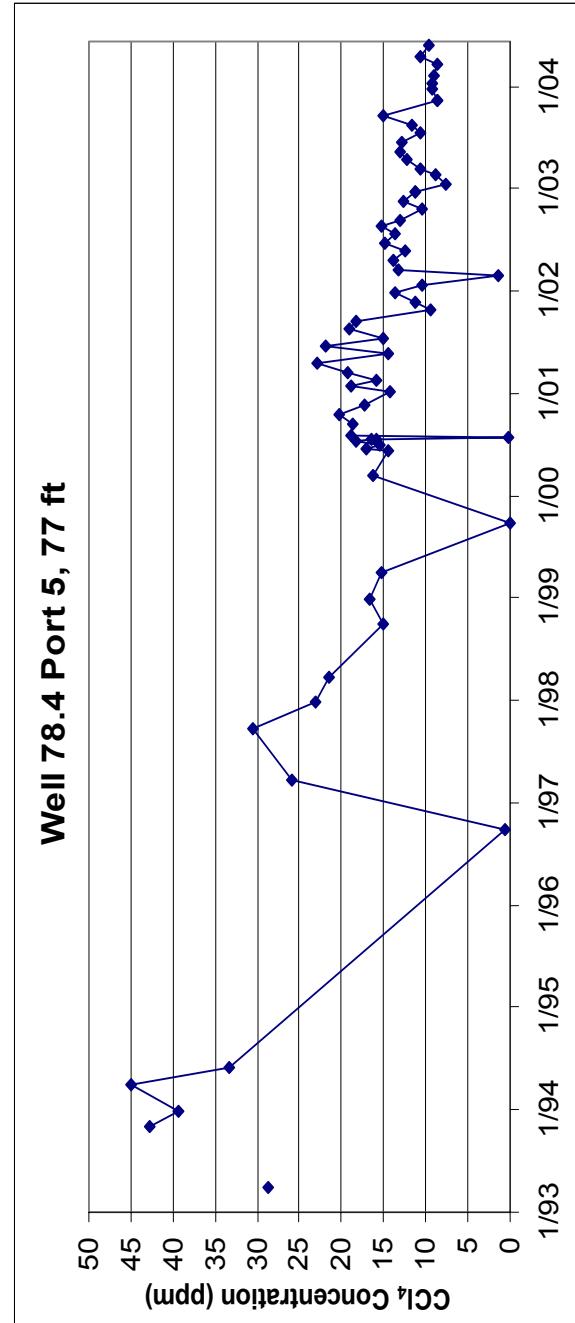


Figure 115. Carbon tetrachloride concentrations (ppmv) for Well Port 78.4-5.

Table F-116. Monitoring data for Well USGS118-1 from January through June 2004.

	Well Port USGS118-1	Inside Fence N	Frequency M	Depth 552 ft			
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/12/04 12:50 PM	1/12/04 4:27 PM	9.53E-01	6.07E-01	3.75E-01	5.19E-01	1.12E+00	8.01E+03
2/2/04 9:17 AM	2/2/04 2:45 PM	8.19E-01	3.41E-01	1.68E-01	9.34E-02	1.95E-01	6.40E+03
3/2/04 8:08 AM	3/2/04 4:36 PM	1.15E+00	5.64E-01	6.19E-02	3.04E-01	8.41E-01	9.27E+03
5/3/04 10:05 AM	5/4/04 11:33 AM	2.12E+00	8.39E-01	1.87E-01	3.23E-01	4.12E-01	1.31E+04
6/14/04 3:30 PM	6/15/04 3:34 PM	2.58E+00	1.23E+00	1.81E-01	2.18E-01	1.15E-01	1.17E+04

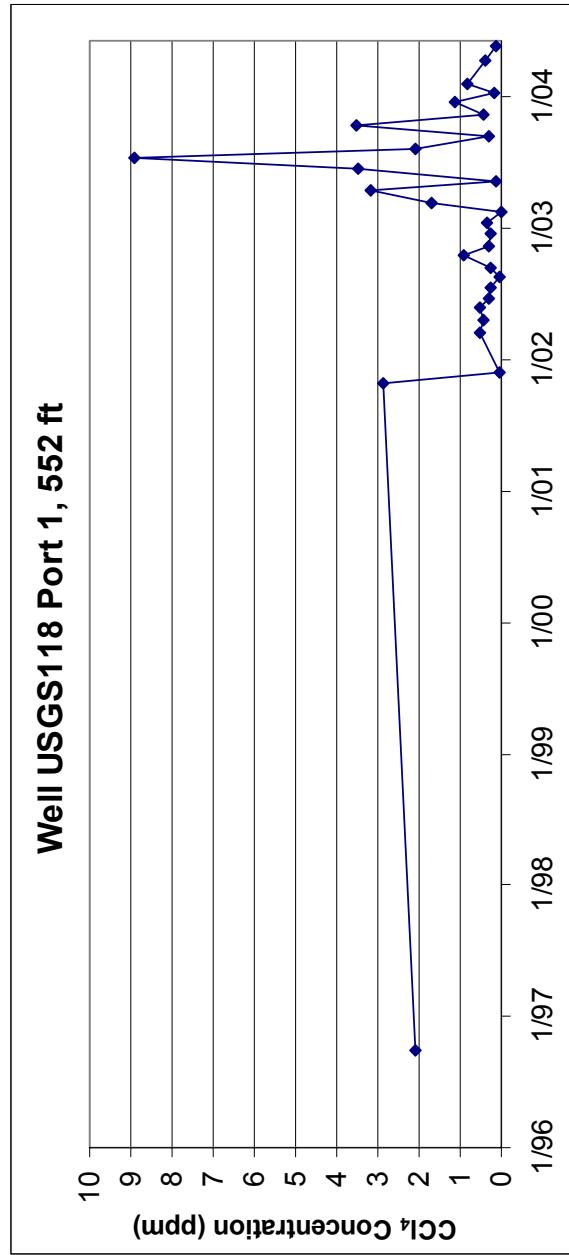


Figure 116. Carbon tetrachloride concentrations (ppmv) for Well Port USGS118-1.

Table F-117. Monitoring data for Well USGS118-2 from January through June 2004.

Well Port USGS118-2		Inside Fence N		Frequency M		Depth 255 ft			
Sample Date and Time	Analysis Date and Time			CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
6/14/04 3:35 PM	6/15/04 3:37 PM			2.64E+00	1.18E+00	3.96E-01	4.49E-01	3.65E-01	1.19E+04

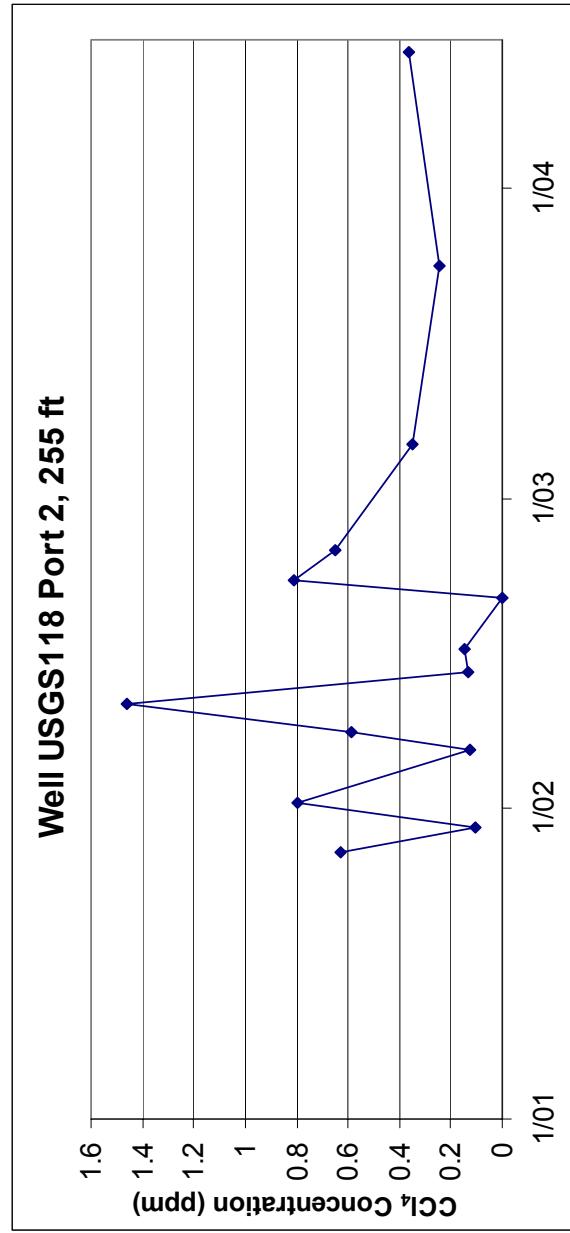


Figure 117. Carbon tetrachloride concentrations (ppmv) for Well Port USGS118-2.

Table F-118. Monitoring data for Well USGS118-3 from January through June 2004.

	Well Port USGS118-3	Inside Fence N	Frequency M	Depth 125 ft			
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/12/04 12:52 PM	1/12/04 4:30 PM	1.44E+00	9.43E-01	3.98E-01	8.94E-01	2.19E+00	7.98E+03
2/2/04 9:19 AM	2/2/04 2:48 PM	1.44E+00	9.49E-01	2.19E-01	4.74E-01	1.61E+00	6.44E+03
3/2/04 8:10 AM	3/2/04 4:39 PM	1.52E+00	8.52E-01	1.46E-01	3.73E-01	1.35E+00	9.43E+03
5/3/04 10:06 AM	5/4/04 11:37 AM	2.69E+00	1.39E+00	1.63E-01	7.11E-01	1.54E+00	1.32E+04
6/14/04 3:40 PM	6/15/04 3:40 PM	2.95E+00	1.68E+00	2.39E-01	8.23E-01	1.43E+00	1.18E+04

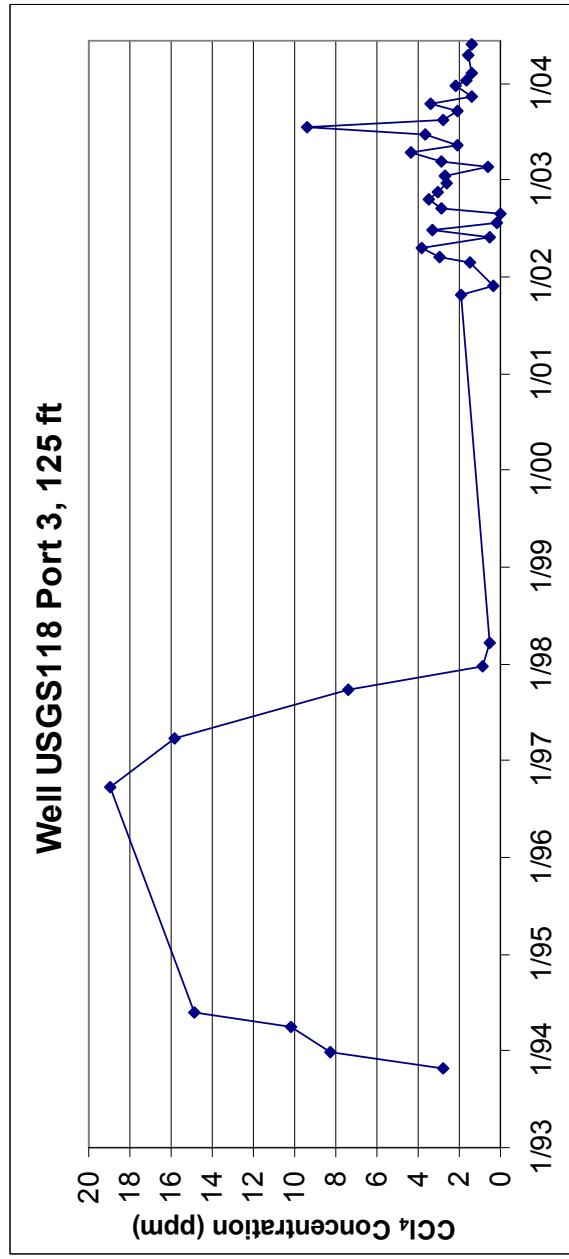


Figure 118. Carbon tetrachloride concentrations (ppmv) for Well Port USGS118-3.

Table F-119. Monitoring data for Well USGS118-4 from January through June 2004.

	Well Port USGS118-4	Inside Fence N	Frequency M	Depth 85 ft	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
Sample Date and Time	Analysis Date and Time									
1/12/04 12:52 PM	1/12/04 4:32 PM		1.37E+00	9.96E-01	4.27E-01	9.81E-01	2.49E+00	7.28E+03		
2/2/04 9:20 AM	2/2/04 2:51 PM		1.25E+00	7.98E-01	2.96E-01	3.98E-01	1.03E+00	6.33E+03		
2/2/04 9:20 AM	2/2/04 2:54 PM		1.32E+00	7.11E-01	1.94E-01	5.14E-01	9.78E-01	6.33E+03		
3/2/04 8:11 AM	3/2/04 4:42 PM		1.44E+00	8.15E-01	1.37E-01	3.95E-01	1.16E+00	9.57E+03		
3/2/04 8:11 AM	3/2/04 4:45 PM		1.55E+00	8.78E-01	1.89E-01	5.28E-01	1.11E+00	9.59E+03		
5/3/04 10:07 AM	5/4/04 11:40 AM		2.27E+00	1.10E+00	2.89E-01	4.88E-01	9.58E-01	1.35E+04		
6/14/04 3:45 PM	6/15/04 3:43 PM		2.92E+00	1.55E+00	2.61E-01	6.84E-01	9.28E-01	1.19E+04		
6/14/04 3:45 PM	6/15/04 3:46 PM		3.09E+00	1.62E+00	2.69E-01	6.74E-01	9.27E-01	1.21E+04		

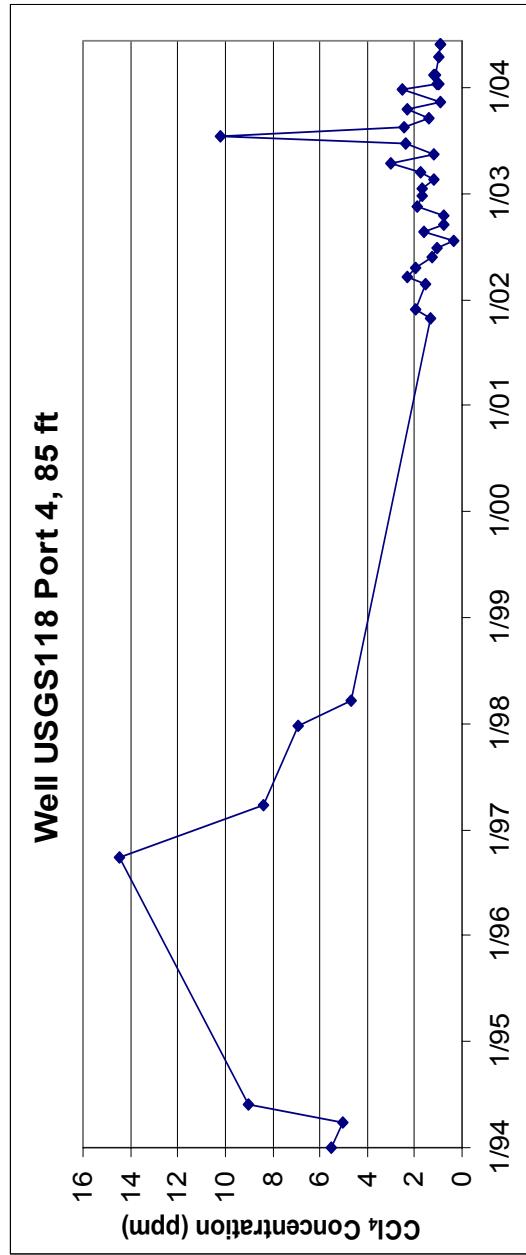


Figure 119. Carbon tetrachloride concentrations (ppmv) for Well Port USGS118-4.

Table F-120. Monitoring data for Well M1S-1 from January through June 2004.

Well Port M1S-1	Inside Fence N	Frequency M	Depth 566 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/12/04 12:13 PM	1/12/04 3:54 PM	1.02E+00	7.20E-01	6.15E-01	8.72E-01	1.72E+00	9.77E+03
1/12/04 12:13 PM	1/12/04 3:57 PM	1.19E+00	7.32E-01	5.70E-01	7.78E-01	1.48E+00	1.30E+04
2/2/04 10:25 AM	2/2/04 1:57 PM	9.16E-01	5.84E-01	2.74E-01	6.03E-01	1.21E+00	6.55E+03
2/2/04 10:25 AM	2/2/04 2:00 PM	8.80E-01	5.31E-01	2.57E-01	4.39E-01	8.56E-01	6.57E+03
3/2/04 9:25 AM	3/2/04 5:39 PM	1.56E+00	6.27E-01	7.34E-02	4.73E-01	1.40E+00	9.48E+03
3/2/04 9:25 AM	3/2/04 5:42 PM	1.33E+00	5.85E-01	9.18E-02	3.69E-01	1.01E+00	9.58E+03
4/8/04 10:52 AM	4/8/04 2:38 PM	1.79E+00	7.03E-01	2.10E-01	5.85E-01	1.16E+00	1.65E+04
4/8/04 10:52 AM	4/8/04 2:41 PM	1.68E+00	6.95E-01	1.77E-01	3.80E-01	5.17E-01	1.64E+04
5/3/04 10:54 AM	5/4/04 10:39 AM	1.75E+00	1.03E+00	7.11E-01	5.99E-01	1.09E+00	1.29E+04
5/3/04 10:54 AM	5/4/04 10:42 AM	1.88E+00	1.04E+00	5.75E-01	5.38E-01	8.64E-01	1.29E+04
6/14/04 12:05 PM	6/15/04 1:15 PM	2.53E+00	1.71E+00	1.17E+00	7.81E-01	8.48E-01	1.13E+04
6/14/04 12:05 PM	6/15/04 1:19 PM	2.17E+00	1.38E+00	7.25E-01	4.52E-01	4.35E-01	1.14E+04

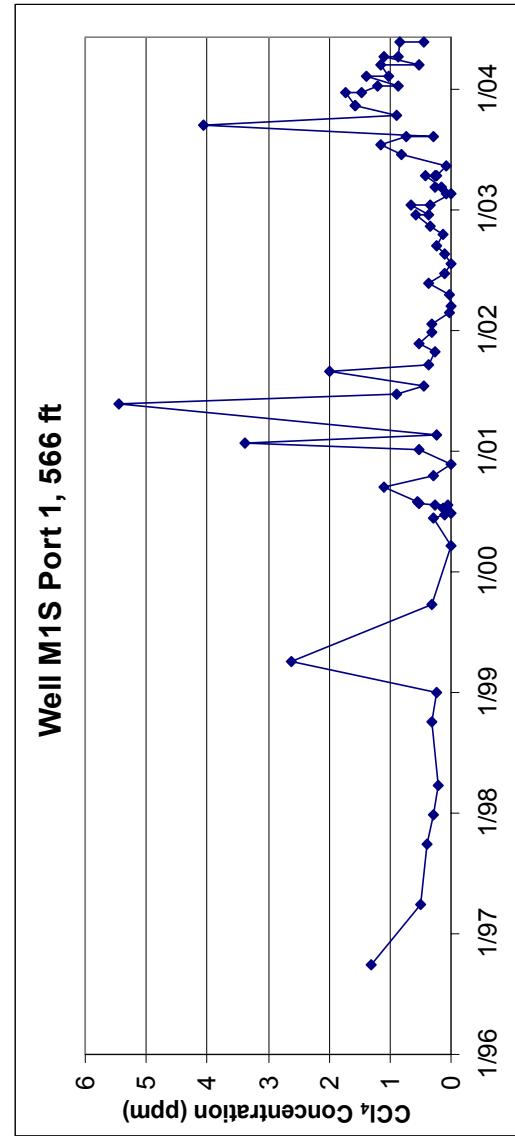


Figure 120. Carbon tetrachloride concentrations (ppmv) for Well Port M1S-1.

Table F-121. Monitoring data for Well M1S-2 from January through June 2004.

Well Port M1S-2	Inside Fence N	Frequency M	Depth 440 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/12/04 12:14 PM	1/12/04 4:00 PM	8.99E-01	6.31E-01	4.86E-01	6.20E-01	1.37E+00	8.78E+03
2/2/04 10:26 AM	2/2/04 2:03 PM	7.67E-01	4.09E-01	2.61E-01	4.46E-01	7.59E-01	6.62E+03
3/2/04 9:26 AM	3/2/04 5:48 PM	1.27E+00	5.22E-01	5.82E-02	3.12E-01	7.56E-01	9.43E+03
4/8/04 10:52 AM	4/8/04 2:44 PM	1.60E+00	6.35E-01	2.36E-01	3.31E-01	5.78E-01	1.62E+04
4/8/04 10:52 AM	4/8/04 2:47 PM	1.53E+00	6.87E-01	1.48E-01	4.30E-01	5.67E-01	1.62E+04
5/3/04 10:54 AM	5/4/04 10:45 AM	1.89E+00	8.25E-01	3.97E-01	3.60E-01	3.82E-01	1.29E+04
6/14/04 12:05 PM	6/15/04 1:21 PM	2.20E+00	1.49E+00	8.70E-01	5.97E-01	4.89E-01	1.11E+04

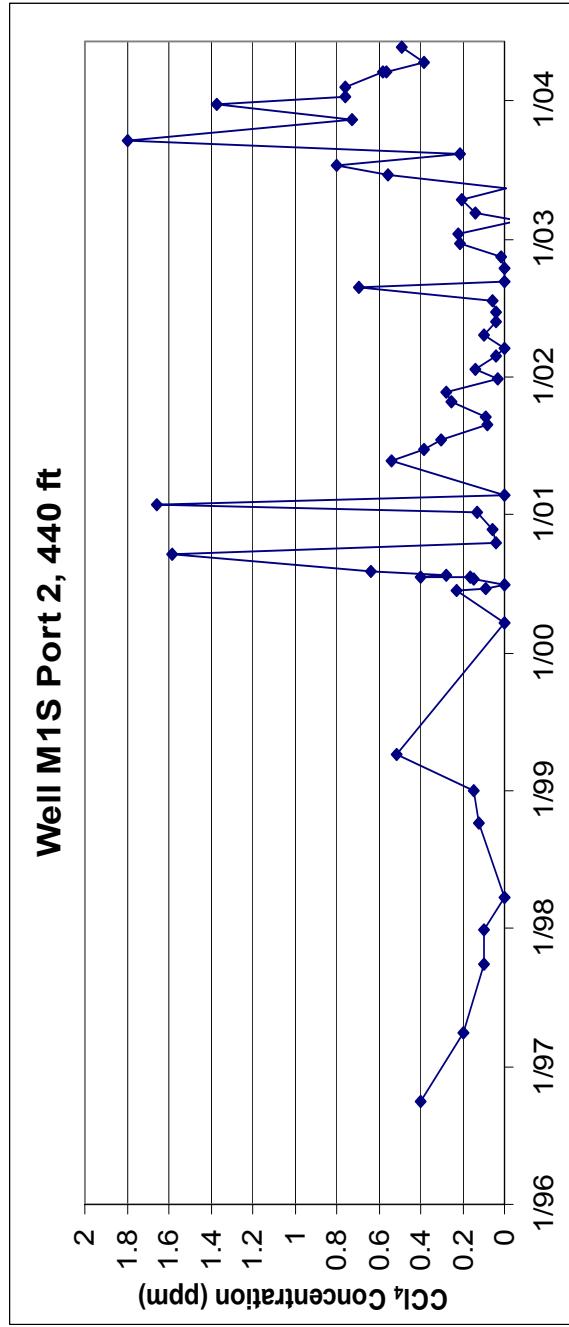


Figure 121. Carbon tetrachloride concentrations (ppmv) for Well Port M1S-2.

Table F-122. Monitoring data for Well M1S-3 from January through June 2004.

Well Port M1S-3	Inside Fence N	Frequency M	Depth 319 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/12/04 12:14 PM	1/12/04 4:03 PM	9.52E-01	7.36E-01	5.01E-01	5.76E-01	1.19E+00	9.34E+03
2/2/04 10:27 AM	2/2/04 2:06 PM	8.59E-01	4.91E-01	2.79E-01	2.67E-01	4.85E-01	6.46E+03
3/2/04 9:27 AM	3/2/04 5:45 PM	1.14E+00	6.35E-01	1.97E-01	3.19E-01	6.15E-01	9.40E+03
4/8/04 11:19 AM	4/8/04 2:50 PM	1.57E+00	6.80E-01	1.86E-01	2.24E-01	4.08E-01	1.66E+04
5/3/04 10:54 AM	5/4/04 10:48 AM	1.91E+00	9.59E-01	3.62E-01	3.35E-01	3.49E-01	1.30E+04
6/14/04 12:05 PM	6/15/04 1:24 PM	2.18E+00	1.42E+00	8.43E-01	5.46E-01	4.59E-01	1.12E+04

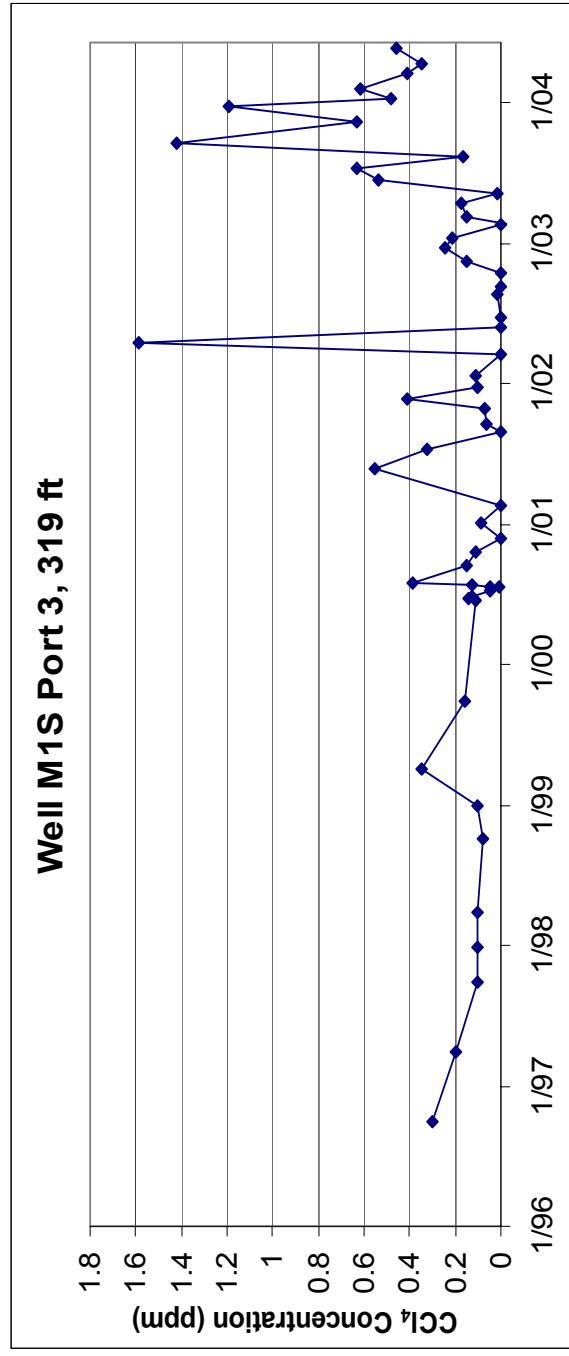


Figure 122. Carbon tetrachloride concentrations (ppmv) for Well Port M1S-3.

Table F-123. Monitoring data for Well VVE1-1 from January through June 2004.

Well Port VVE1-1	Inside Fence N	Frequency M	Depth 189 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/12/04 12:15 PM	1/12/04 3:42 PM	1.96E+00	1.46E+00	9.49E-01	1.35E+00	3.79E+00	1.01E+04
2/2/04 10:23 AM	2/2/04 1:45 PM	1.76E+00	1.28E+00	5.07E-01	8.98E-01	3.06E+00	6.62E+03
3/2/04 9:21 AM	3/2/04 5:30 PM	2.09E+00	7.92E-01	1.30E-01	3.96E-01	1.37E+00	1.08E+04
4/8/04 10:49 AM	4/8/04 2:20 PM	2.17E+00	9.49E-01	3.77E-01	5.02E-01	1.16E+00	1.59E+04
5/3/04 10:52 AM	5/4/04 10:51 AM	3.25E+00	1.69E+00	4.36E-01	7.88E-01	2.41E+00	1.30E+04
6/14/04 12:01 PM	6/15/04 1:06 PM	3.81E+00	2.79E+00	2.13E+00	2.05E+00	4.71E+00	1.10E+04

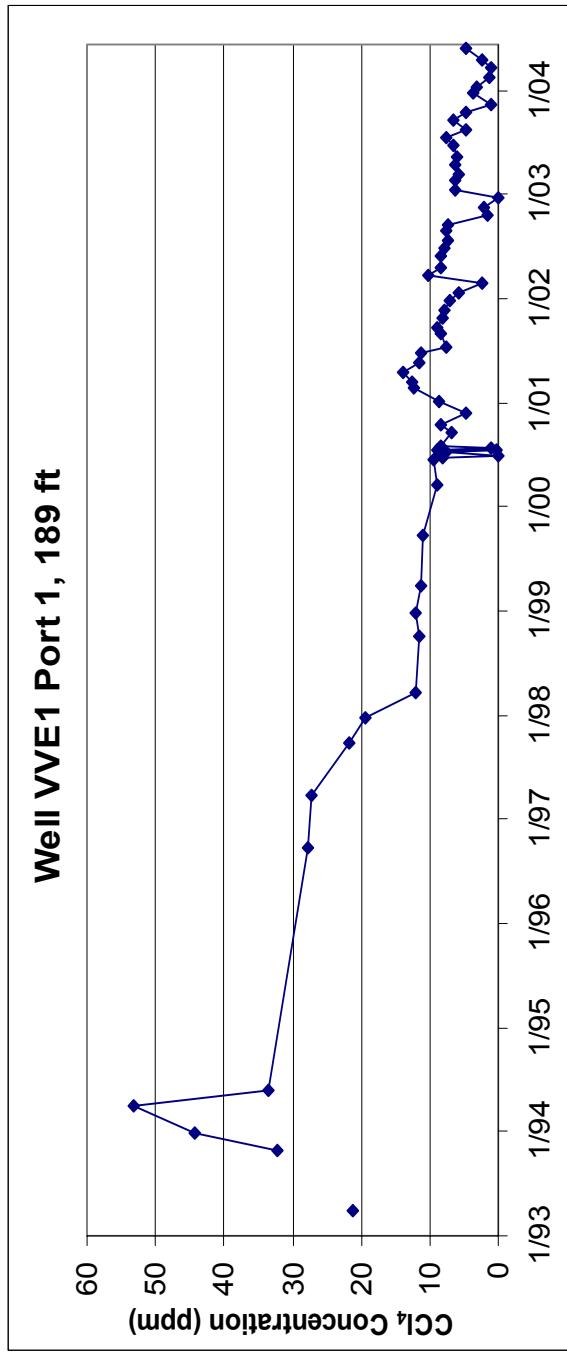


Figure 123. Carbon tetrachloride concentrations (ppmv) for Well Port VVE1-1.

Table F-124. Monitoring data for Well VVE1-2 from January through June 2004.

Well Port VVE1-2	Inside Fence N	Frequency M	Depth 127 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/12/04 12:16 PM	1/12/04 3:45 PM	2.46E+00	1.93E+00	1.02E+00	2.14E+00	5.84E+00	9.93E+03
1/12/04 12:16 PM	1/12/04 3:48 PM	2.52E+00	1.77E+00	9.66E-01	2.09E+00	5.82E+00	9.86E+03
2/2/04 10:24 AM	2/2/04 1:48 PM	2.01E+00	1.58E+00	5.57E-01	1.25E+00	4.07E+00	6.59E+03
3/2/04 9:22 AM	3/2/04 5:33 PM	2.43E+00	1.36E+00	2.38E-01	7.30E-01	2.93E+00	9.56E+03
4/8/04 10:49 AM	4/8/04 2:23 PM	2.80E+00	1.55E+00	3.81E-01	1.05E+00	2.86E+00	1.64E+04
5/3/04 10:52 AM	5/4/04 10:54 AM	3.89E+00	2.18E+00	6.73E-01	1.40E+00	4.56E+00	1.30E+04
5/3/04 10:52 AM	5/4/04 10:57 AM	3.90E+00	2.16E+00	6.36E-01	1.50E+00	4.60E+00	1.30E+04
6/14/04 12:01 PM	6/15/04 1:10 PM	4.46E+00	2.71E+00	1.26E+00	2.05E+00	5.14E+00	1.13E+04

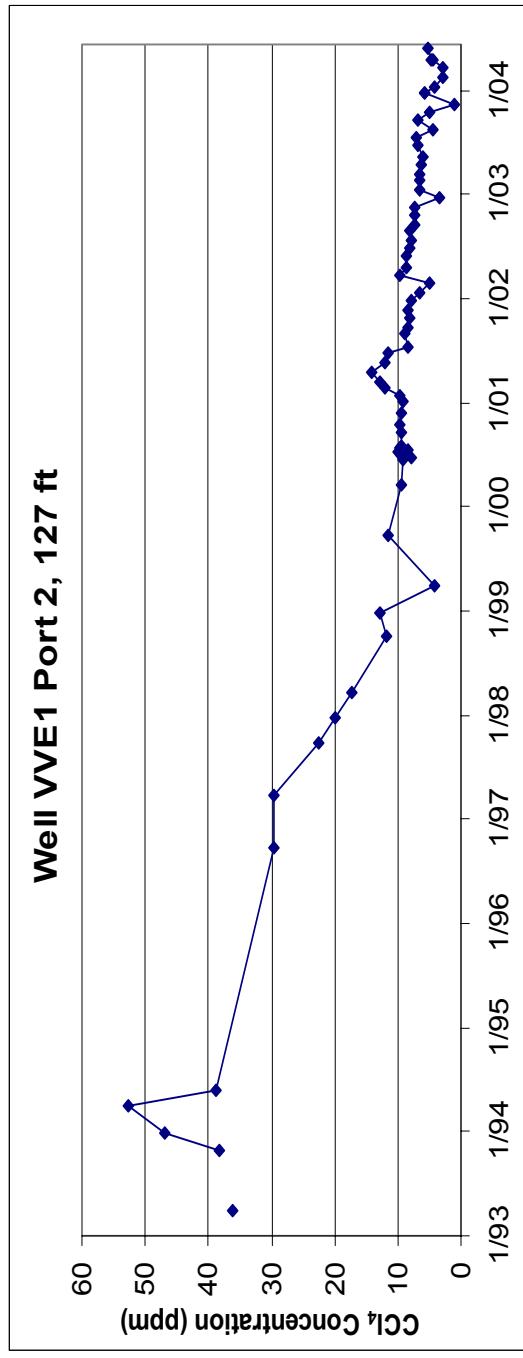


Figure 124. Carbon tetrachloride concentrations (ppmv) for Well Port VVE1-2.

Table F-125. Monitoring data for Well VVE1-3 from January through June 2004.

Well Port VVE1-3	Inside Fence N	Frequency M	Depth 65 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/12/04 12:16 PM	1/12/04 3:51 PM	2.95E+00	2.09E+00	1.02E+00	2.32E+00	5.75E+00	9.36E+03
2/2/04 10:21 AM	2/2/04 1:51 PM	2.57E+00	1.90E+00	6.00E-01	1.62E+00	4.72E+00	6.73E+03
2/2/04 10:21 AM	2/2/04 1:54 PM	2.54E+00	1.91E+00	6.50E-01	1.60E+00	4.73E+00	6.73E+03
3/2/04 9:23 AM	3/2/04 5:36 PM	2.94E+00	1.87E+00	3.34E-01	9.26E-01	3.68E+00	9.60E+03
4/8/04 10:49 AM	4/8/04 2:26 PM	3.60E+00	2.01E+00	5.13E-01	1.35E+00	4.07E+00	1.64E+04
5/3/04 10:52 AM	5/4/04 11:00 AM	3.53E+00	1.86E+00	5.66E-01	1.28E+00	3.56E+00	1.30E+04
6/14/04 12:05 PM	6/15/04 1:12 PM	4.22E+00	2.60E+00	1.42E+00	2.02E+00	4.12E+00	1.16E+04

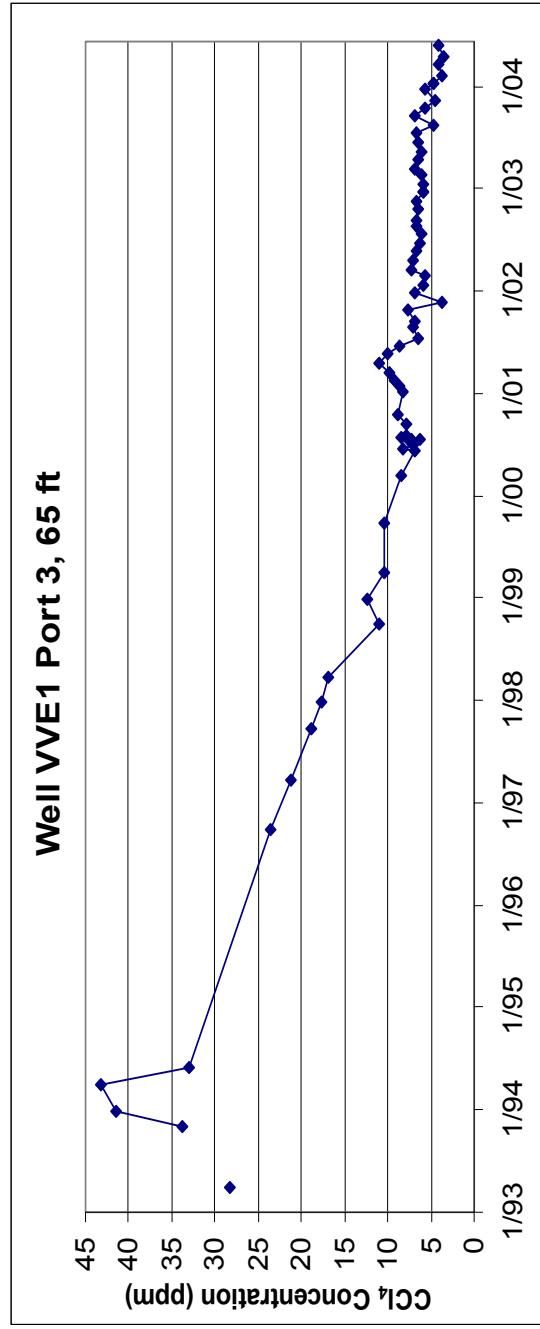


Figure F-125. Carbon tetrachloride concentrations (ppmv) for Well Port VVE1-3.

Table F-126. Monitoring data for Well M3S-1 from January through June 2004.

Well Port M3S-1	Inside Fence N	Frequency M	Depth 559 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/12/04 12:37 PM	1/12/04 3:15 PM	2.07E+00	2.15E+00	2.83E+00	2.15E+00	6.57E+00	1.03E+04
2/2/04 10:49 AM	2/2/04 1:04 PM	1.60E+00	1.67E+00	1.20E+00	1.30E+00	3.80E+00	7.31E+03
3/2/04 11:09 AM	3/4/04 1:00 PM	2.61E+00	1.52E+00	3.56E-01	8.17E-01	2.69E+00	8.06E+03
4/8/04 11:20 AM	4/8/04 1:53 PM	3.05E+00	1.97E+00	1.01E+00	2.01E+00	4.97E+00	1.69E+04
5/3/04 11:16 AM	5/4/04 10:09 AM	3.27E+00	2.74E+00	1.99E+00	1.67E+00	4.18E+00	1.28E+04
6/14/04 12:45 PM	6/15/04 1:39 PM	3.77E+00	2.14E+00	8.25E-01	8.32E-01	2.68E+00	1.13E+04

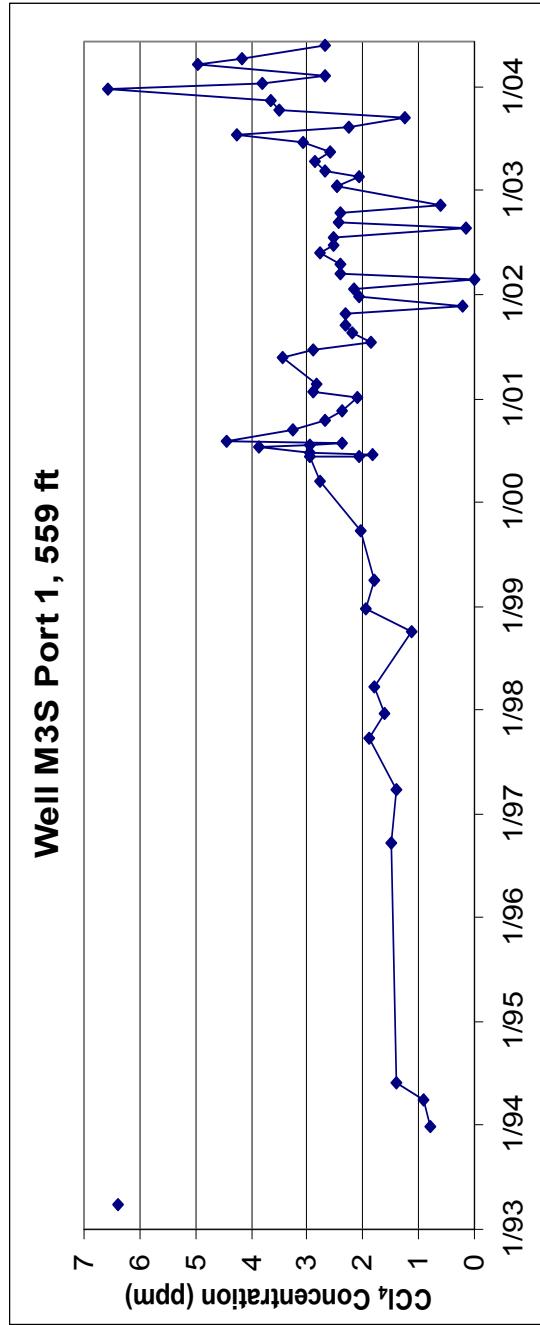


Figure 126. Carbon tetrachloride concentrations (ppmv) for Well Port M3S-1.

Table F-127. Monitoring data for Well M3S-2 from January through June 2004.

Well Port M3S-2	Inside Fence		Frequency M	Depth 505 ft				
	N							
Sample Date and Time	Analysis Date and Time		CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/12/04 12:37 PM	1/12/04 3:18 PM		2.11E+00	2.34E+00	2.37E+00	2.32E+00	6.54E+00	1.08E+04
2/2/04 10:50 AM	2/2/04 1:07 PM		1.71E+00	1.94E+00	1.11E+00	1.55E+00	4.83E+00	7.09E+03
3/2/04 11:10 AM	3/4/04 1:03 PM		2.54E+00	1.79E+00	5.36E-01	9.49E-01	3.65E+00	8.18E+03
3/2/04 11:10 AM	3/4/04 1:07 PM		2.64E+00	1.81E+00	3.74E-01	1.03E+00	3.64E+00	8.20E+03
4/8/04 11:21 AM	4/8/04 1:56 PM		3.19E+00	2.32E+00	8.94E-01	1.81E+00	4.88E+00	1.68E+04
5/3/04 11:15 AM	5/4/04 10:12 AM		3.44E+00	3.07E+00	1.86E+00	1.95E+00	5.29E+00	1.29E+04
6/14/04 12:45 PM	6/15/04 1:42 PM		3.75E+00	2.74E+00	8.72E-01	1.62E+00	4.67E+00	1.13E+04

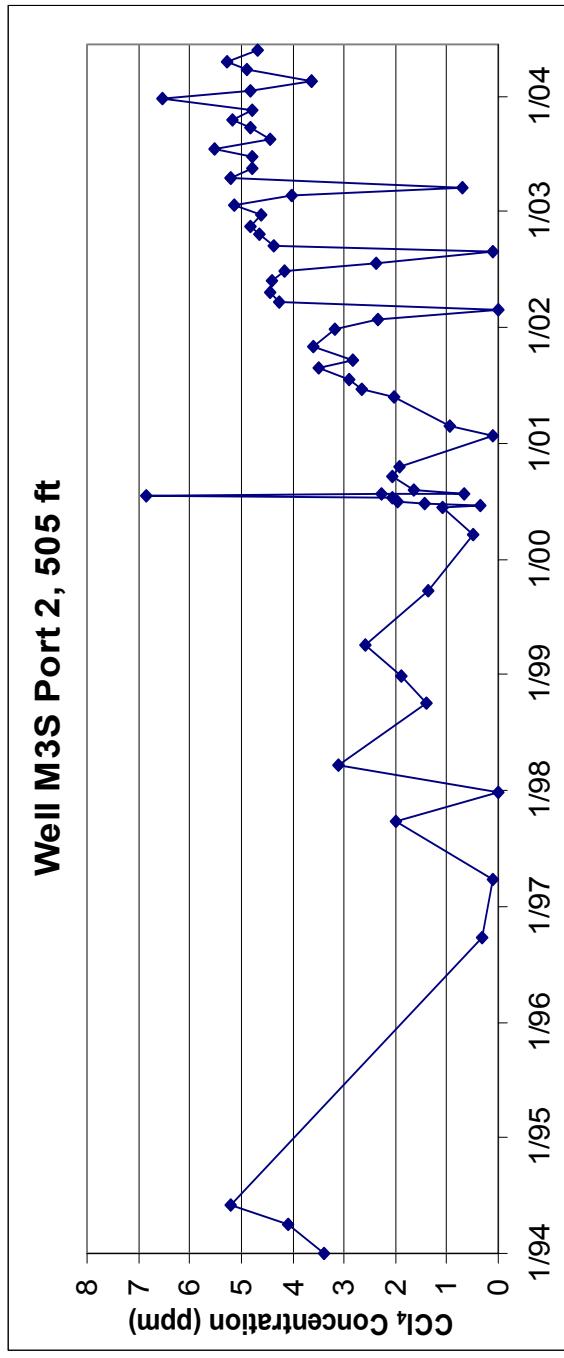


Figure 127. Carbon tetrachloride concentrations (ppmv) for Well Port M3S-2.

Table F-128. Monitoring data for Well M3S-3 from January through June 2004.

Well Port M3S-3	Inside Fence N	Frequency M	Depth 335 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
2/2/04 10:51 AM	2/2/04 1:10 PM	1.38E+00	1.26E+00	6.65E-01	1.01E+00	2.91E+00	7.44E+03

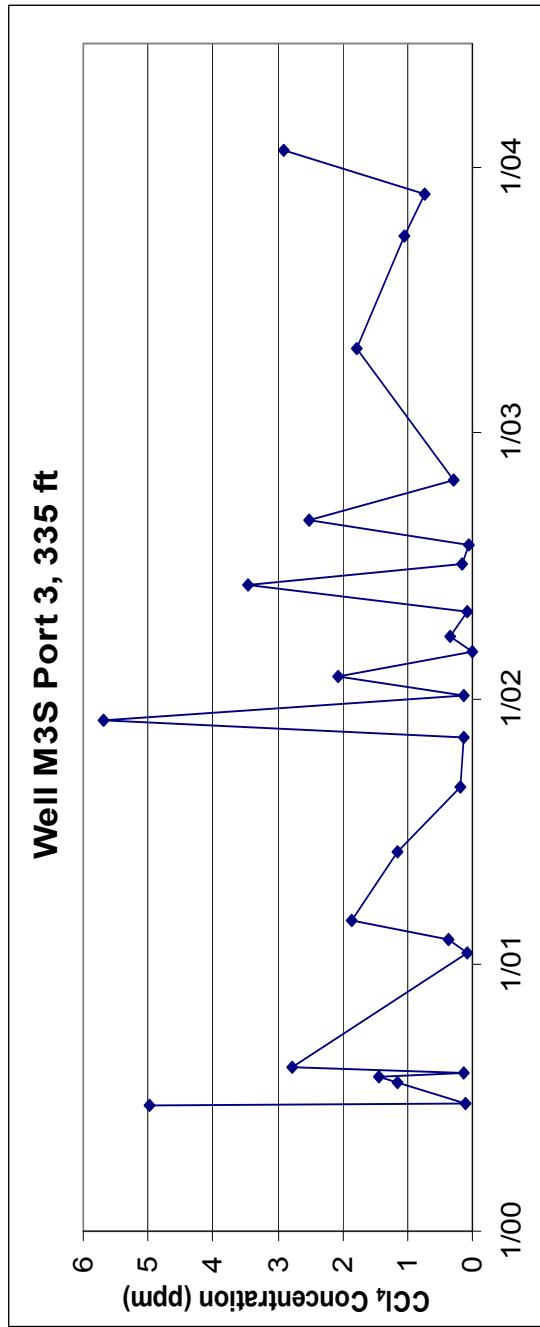


Figure 128. Carbon tetrachloride concentrations (ppmv) for Well Port M3S-3.

Table F-129. Monitoring data for Well VVE3-1 from January through June 2004.

Well Port VVE3-1	Inside Fence		Frequency M	Depth 200 ft				
	Well Port VVE3-1	N						
1/12/04 12:40 PM	1/13/04 9:24 AM		3.03E+00	2.82E+00	1.04E+00	3.01E+00	8.45E+00	4.16E+03
2/2/04 10:53 AM	2/2/04 1:22 PM		2.34E+00	2.49E+00	9.93E-01	2.09E+00	6.75E+00	6.93E+03
3/2/04 11:06 AM	3/4/04 1:09 PM		2.69E+00	2.21E+00	3.75E-01	1.65E+00	5.57E+00	8.15E+03
4/8/04 11:21 AM	4/8/04 2:57 PM		3.25E+00	2.63E+00	5.07E-01	2.06E+00	6.51E+00	1.67E+04
5/3/04 11:16 AM	5/4/04 9:57 AM		3.98E+00	3.81E+00	4.60E+00	4.06E+00	9.63E+00	1.28E+04
5/3/04 11:16 AM	5/4/04 10:00 AM		3.94E+00	3.48E+00	3.46E+00	3.56E+00	8.37E+00	1.29E+04
6/14/04 12:45 PM	6/15/04 1:27 PM		4.11E+00	3.03E+00	1.22E+00	2.57E+00	6.49E+00	1.14E+04

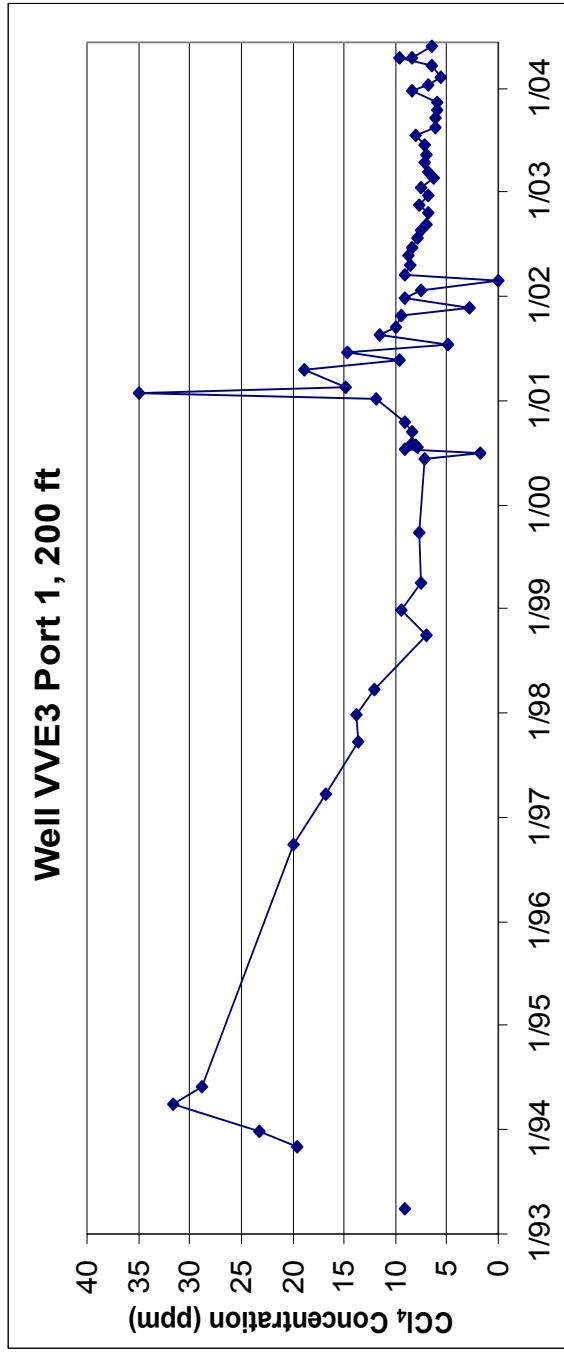


Figure 129. Carbon tetrachloride concentrations (ppmv) for Well Port VVE3-1.

Table F-130. Monitoring data for Well VVE3-2 from January through June 2004.

Well Port VVE3-2	Inside Fence N	Frequency M	Depth 155 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/12/04 12:41 PM	1/13/04 9:27 AM	1.20E+00	8.20E-01	5.74E-01	1.00E+00	2.21E+00	4.08E+03
2/2/04 10:54 AM	2/2/04 1:25 PM	1.09E+00	1.08E+00	6.82E-01	1.03E+00	2.35E+00	6.88E+03
2/2/04 10:54 AM	2/2/04 1:27 PM	1.12E+00	1.06E+00	6.25E-01	1.00E+00	2.31E+00	6.85E+03
3/2/04 11:07 AM	3/4/04 1:12 PM	2.72E+00	2.12E+00	4.29E-01	1.69E+00	5.82E+00	8.18E+03
4/8/04 11:21 AM	4/8/04 2:53 PM	3.25E+00	2.40E+00	5.81E-01	2.09E+00	6.09E+00	1.66E+04
5/3/04 11:16 AM	5/4/04 10:03 AM	3.31E+00	2.78E+00	2.80E+00	2.90E+00	6.52E+00	1.30E+04
6/14/04 12:45 PM	6/15/04 1:30 PM	3.35E+00	2.48E+00	1.07E+00	1.89E+00	4.39E+00	1.15E+04

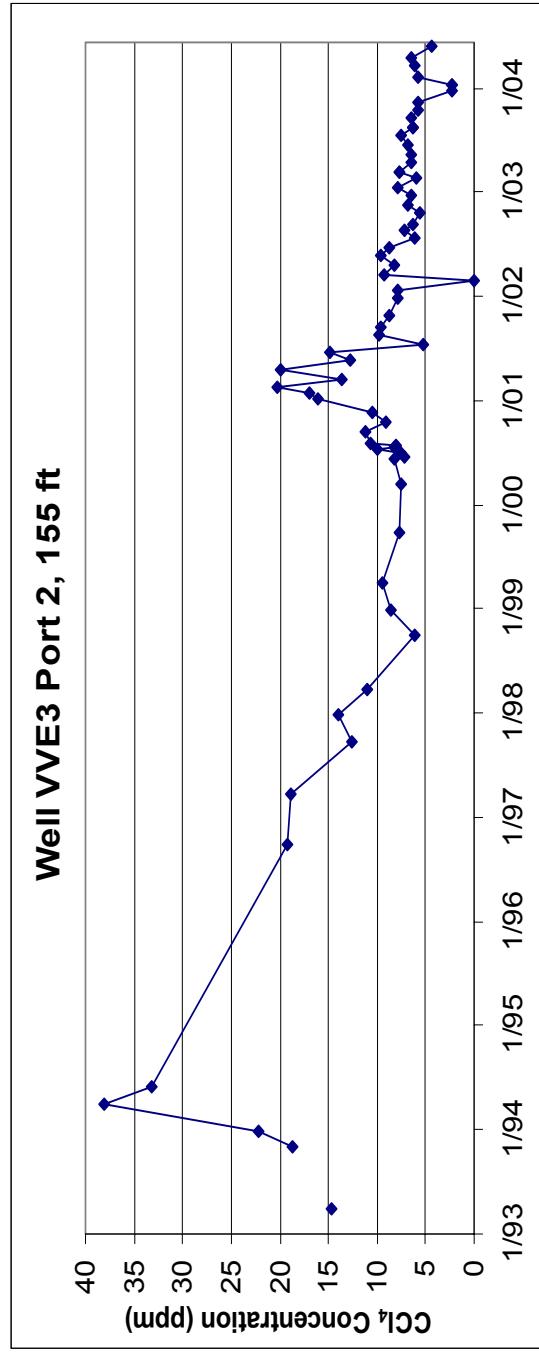


Figure 130. Carbon tetrachloride concentrations (ppmv) for Well Port VVE3-2.

Table F-131. Monitoring data for Well VVE3-3 from January through June 2004.

Well Port VVE3-3	Inside Fence N	Frequency M	Depth 92 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/12/04 12:42 PM	1/13/04 9:30 AM	2.52E+00	2.16E+00	8.89E-01	2.51E+00	6.54E+00	4.16E+03
1/12/04 12:42 PM	1/13/04 9:33 AM	2.62E+00	2.24E+00	8.37E-01	2.52E+00	6.51E+00	4.15E+03
2/2/04 10:55 AM	2/2/04 1:30 PM	2.09E+00	2.04E+00	8.79E-01	1.79E+00	5.03E+00	6.84E+03
3/2/04 11:08 AM	3/4/04 1:15 PM	2.61E+00	1.98E+00	4.31E-01	1.64E+00	4.76E+00	8.11E+03
4/8/04 11:19 AM	4/8/04 3:00 PM	2.64E+00	2.12E+00	6.41E-01	2.04E+00	5.17E+00	1.66E+04
5/3/04 11:16 AM	5/4/04 10:06 AM	3.23E+00	2.79E+00	2.42E+00	2.74E+00	5.95E+00	1.29E+04
6/14/04 12:45 PM	6/15/04 1:33 PM	3.57E+00	2.61E+00	1.13E+00	2.03E+00	4.53E+00	1.14E+04
6/14/04 12:45 PM	6/15/04 1:36 PM	3.65E+00	2.65E+00	1.07E+00	1.97E+00	4.51E+00	1.15E+04

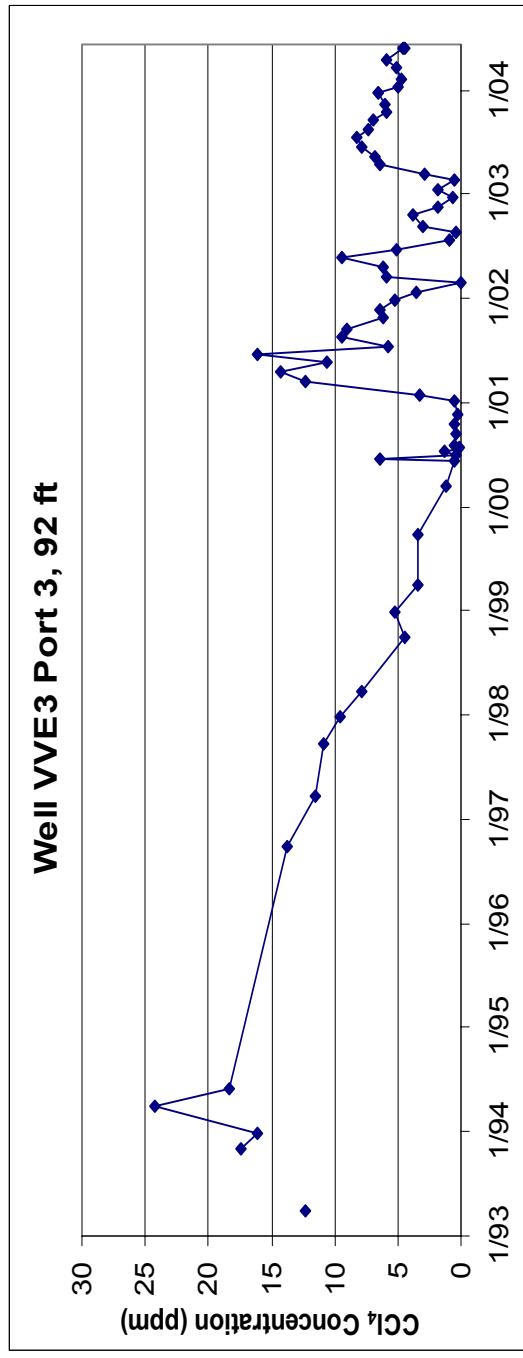


Figure 131. Carbon tetrachloride concentrations (ppmv) for Well Port VVE3-2.

Table F-132. Monitoring data for Well M4D-1 from January through June 2004.

Well Port	M4D-1	Inside Fence	Frequency	Depth
Sample Date and Time		Analysis Date and Time		
2/2/04 10:01 AM		2/2/04 2:09 PM		
3/2/04 9:08 AM	3/2/04 4:57 PM	CHCl ₃	TCA	CCl ₄
4/8/04 10:33 AM	4/8/04 2:29 PM	9.91E-01	7.11E-01	4.66E-01
5/3/04 10:34 AM	5/4/04 11:21 AM	(ppmv)	(ppmv)	(ppmv)
6/14/04 1:45 PM	6/15/04 1:45 PM	2.53E-01	2.53E-01	1.19E+00
				H ₂ O (ppmv)
				6.62E+03

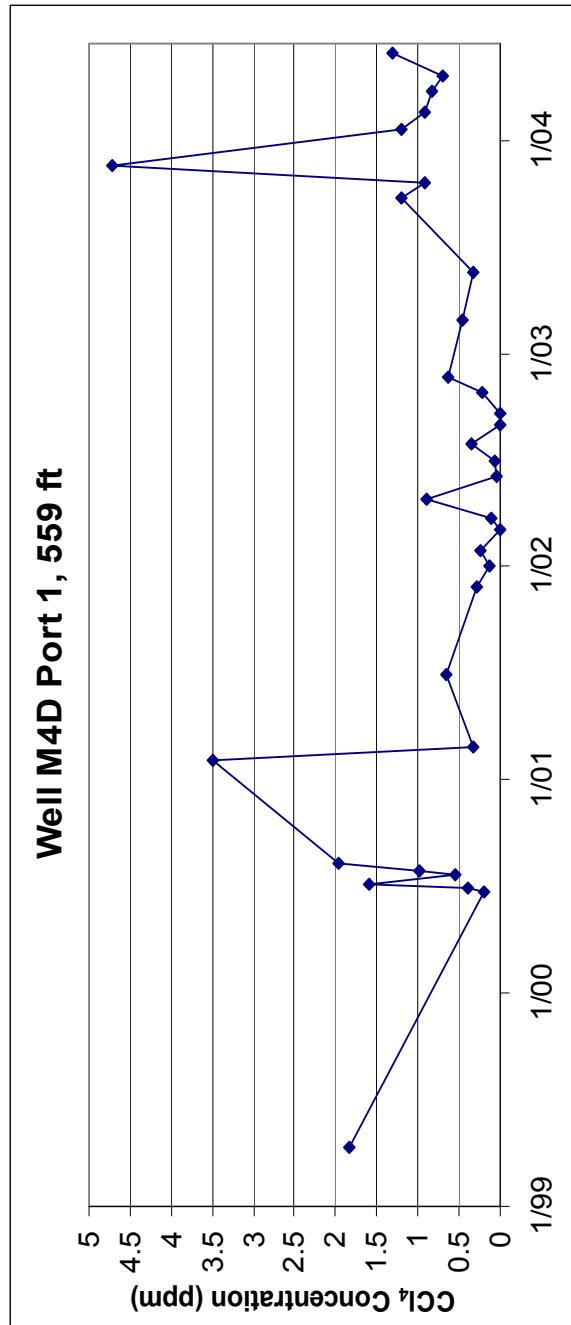


Figure 132. Carbon tetrachloride concentrations (ppmv) for Well Port M4D-1.

Table F-133. Monitoring data for Well M4D-2 from January through June 2004.

Well Port M4D-2	Inside Fence		Frequency M	Depth 455 ft						
	N				CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/12/04 11:30 AM		1/12/04 4:18 PM			1.46E+00	9.22E-01	5.29E-01	1.18E+00	3.21E+00	7.98E+03
1/12/04 11:30 AM		1/12/04 4:20 PM			1.36E+00	9.16E-01	5.04E-01	9.46E-01	3.14E+00	7.90E+03
2/2/04 10:02 AM		2/2/04 2:12 PM			1.01E+00	7.16E-01	3.86E-01	2.27E-01	1.53E+00	6.35E+03
3/2/04 9:09 AM		3/2/04 5:00 PM			1.35E+00	7.89E-01	1.65E-01	2.30E-01	1.28E+00	9.50E+03
4/8/04 10:34 AM		4/8/04 2:32 PM			1.86E+00	8.48E-01	2.92E-01	3.53E-01	1.21E+00	1.60E+04
5/3/04 10:34 AM		5/4/04 11:24 AM			2.55E+00	1.06E+00	3.00E-01	3.04E-01	1.39E+00	1.31E+04
6/14/04 1:45 PM		6/15/04 1:48 PM			2.81E+00	1.58E+00	5.77E-01	5.37E-01	1.58E+00	1.17E+04

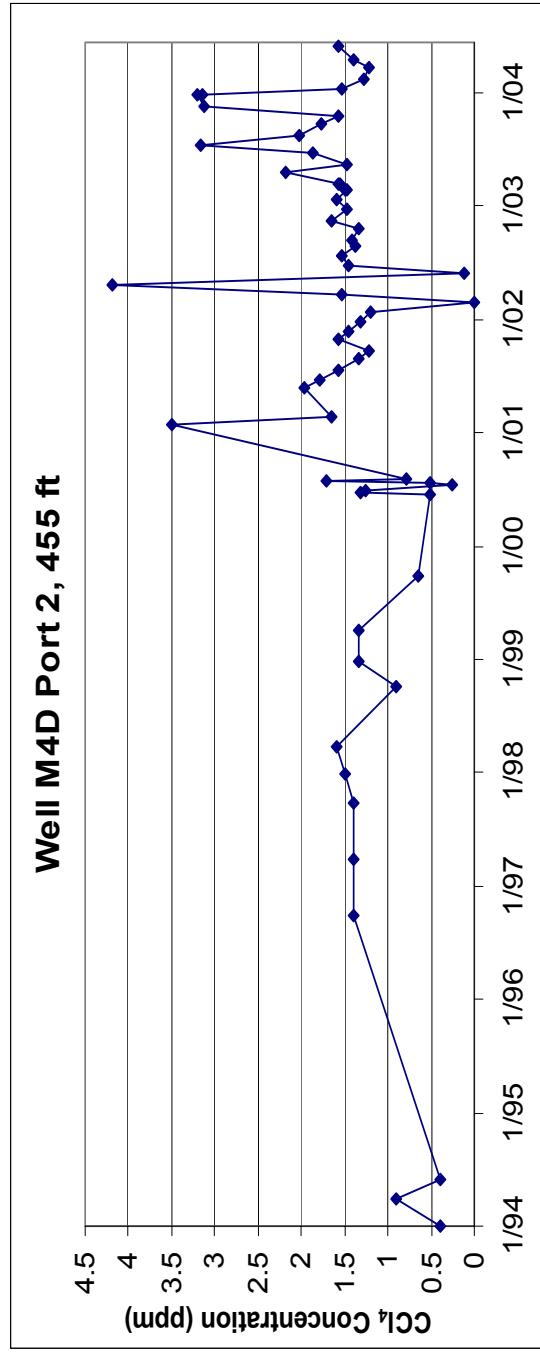


Figure 133. Carbon tetrachloride concentrations (ppmv) for Well Port M4D-2.

Table F-134. Monitoring data for Well M4D-3 from January through June 2004.

Well Port M4D-3	Inside Fence N	Frequency M	Depth 360 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/12/04 11:31 AM	1/12/04 4:24 PM	1.60E+00	1.19E+00	5.37E-01	1.37E+00	5.07E+00	8.01E+03
2/2/04 10:03 AM	2/2/04 2:15 PM	1.22E+00	1.05E+00	3.46E-01	6.28E-01	3.13E+00	6.39E+03
3/2/04 9:10 AM	3/2/04 5:03 PM	1.52E+00	9.77E-01	1.72E-01	3.55E-01	2.29E+00	9.48E+03
4/8/04 10:34 AM	4/8/04 2:36 PM	1.85E+00	1.14E+00	2.36E-01	5.41E-01	2.86E+00	1.63E+04
5/3/04 10:34 AM	5/4/04 11:27 AM	2.44E+00	1.47E+00	3.37E-01	7.82E-01	3.28E+00	1.32E+04
5/3/04 10:34 AM	5/4/04 11:30 AM	2.70E+00	1.47E+00	2.91E-01	6.75E-01	3.32E+00	1.32E+04
6/14/04 1:45 PM	6/15/04 1:51 PM	2.96E+00	1.93E+00	6.29E-01	9.10E-01	3.96E+00	1.15E+04

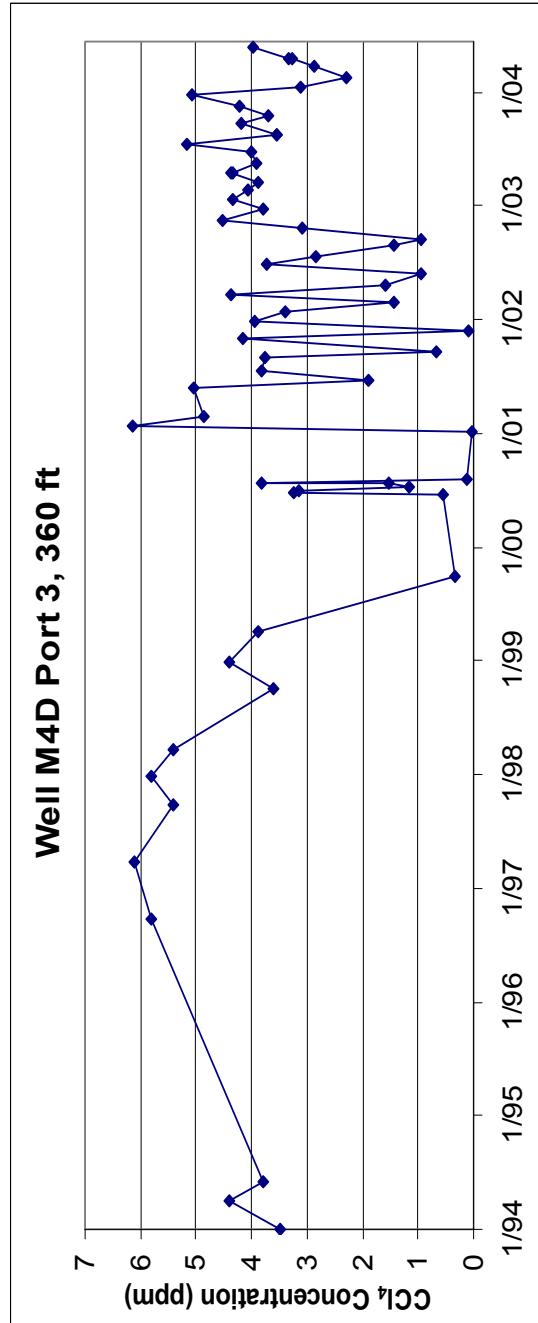


Figure F-134. Carbon tetrachloride concentrations (ppmv) for Well Port M4D-3.

Table F-135. Monitoring data for Well VVE4-1 from January through June 2004.

Well Port VVE4-1	Inside Fence N	Frequency M	Depth 235 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/12/04 11:31 AM	1/12/04 3:33 PM	1.91E+00	1.29E+00	1.19E+00	2.42E+00	5.38E+00	8.69E+03
2/2/04 10:05 AM	2/2/04 2:19 PM	1.07E+00	7.89E-01	3.20E-01	5.93E-01	1.79E+00	6.29E+03
3/2/04 9:11 AM	3/2/04 4:49 PM	1.15E+00	9.07E-01	1.39E-01	3.82E-01	1.67E+00	9.46E+03
4/8/04 9:28 AM	4/8/04 3:45 PM	1.66E+00	9.37E-01	1.23E-01	6.04E-01	1.38E+00	1.62E+04
4/8/04 9:28 AM	4/8/04 3:47 PM	1.95E+00	9.48E-01	1.92E-01	4.13E-01	1.36E+00	1.62E+04
5/3/04 10:30 AM	5/4/04 11:04 AM	2.17E+00	1.13E+00	2.69E-01	5.28E-01	9.39E-01	1.30E+04
6/14/04 1:45 PM	6/15/04 1:54 PM	2.70E+00	1.59E+00	5.46E-01	7.37E-01	1.10E+00	1.15E+04

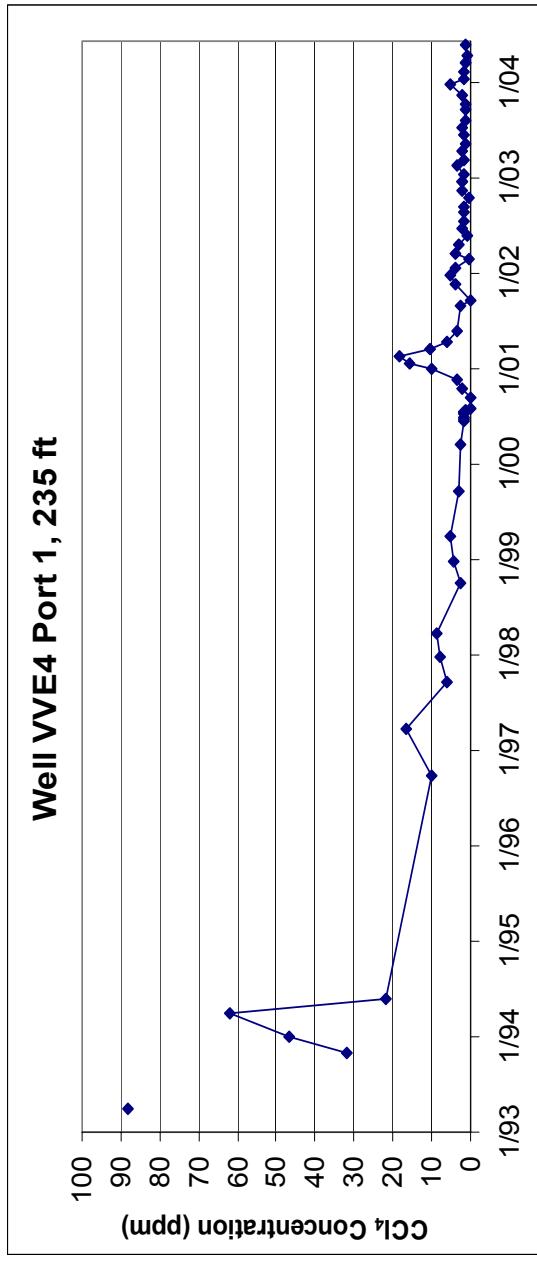


Figure F-135. Carbon tetrachloride concentrations (ppmv) for Well Port VVE4-1.

Table F-136. Monitoring data for Well VVE4-2 from January through June 2004.

Well Port VVE4-2	Inside Fence N	Frequency M	Depth 150 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/12/04 11:31 AM	1/12/04 3:36 PM	2.25E+00	1.40E+00	1.11E+00	2.07E+00	5.05E+00	8.49E+03
2/2/04 10:06 AM	2/2/04 2:21 PM	1.56E+00	8.87E-01	3.11E-01	6.34E-01	2.11E+00	6.32E+03
2/2/04 10:06 AM	2/2/04 2:24 PM	1.80E+00	9.04E-01	3.17E-01	6.09E-01	2.13E+00	6.29E+03
3/2/04 9:12 AM	3/2/04 4:51 PM	2.09E+00	9.08E-01	1.74E-01	4.46E-01	1.93E+00	9.38E+03
4/8/04 9:29 AM	4/8/04 3:50 PM	2.69E+00	1.21E+00	1.64E-01	6.85E-01	2.04E+00	1.63E+04
5/3/04 10:30 AM	5/4/04 11:06 AM	3.61E+00	1.57E+00	3.54E-01	6.74E-01	1.98E+00	1.29E+04
6/14/04 1:45 PM	6/15/04 1:57 PM	3.93E+00	1.83E+00	5.00E-01	7.96E-01	1.70E+00	1.17E+04

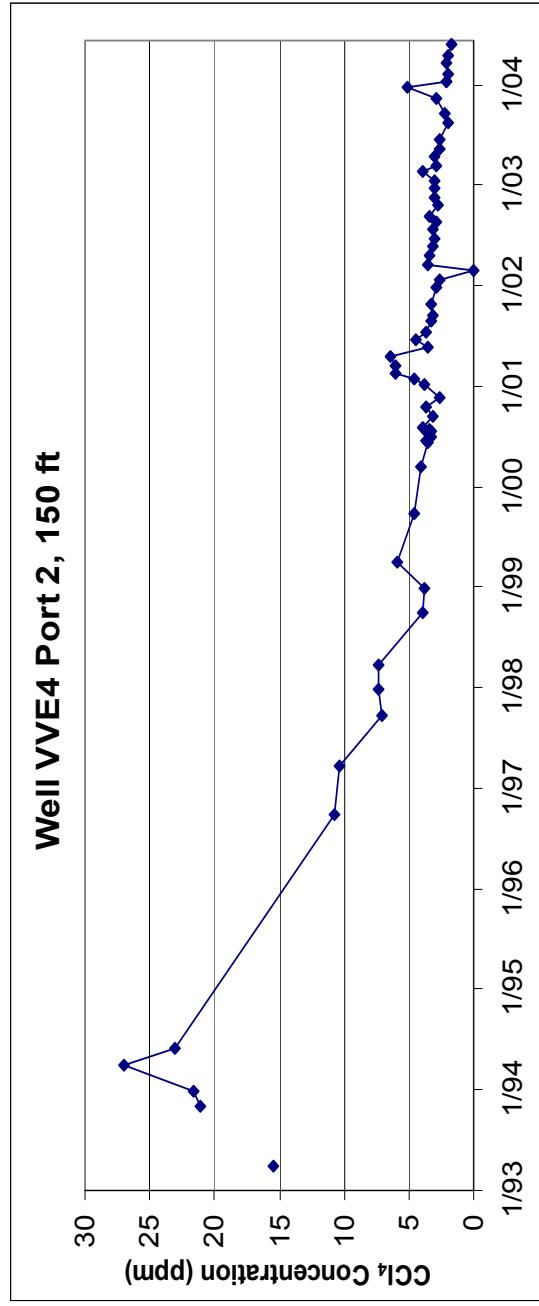


Figure F-136. Carbon tetrachloride concentrations (ppmv) for Well Port VVE4-2.

Table F-137. Monitoring data for Well VVE4-3 from January through June 2004.

Well Port VVE4-3	Inside Fence N	Frequency M	Depth 80 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/12/04 11:31 AM	1/12/04 3:39 PM	1.28E+00	8.66E-01	8.33E-01	1.34E+00	2.64E+00	8.63E+03
2/2/04 10:07 AM	2/2/04 2:27 PM	9.67E-01	4.57E-01	2.50E-01	3.95E-01	1.06E+00	6.33E+03
3/2/04 9:13 AM	3/2/04 4:54 PM	1.35E+00	5.07E-01	5.92E-02	4.37E-01	1.08E+00	9.16E+03
4/8/04 9:29 AM	4/8/04 3:53 PM	1.70E+00	5.90E-01	1.28E-01	4.31E-01	7.74E-01	1.63E+04
5/3/04 10:30 AM	5/4/04 11:09 AM	2.27E+00	9.53E-01	2.55E-01	3.58E-01	4.97E-01	1.29E+04
6/14/04 1:45 PM	6/15/04 2:00 PM	2.81E+00	1.44E+00	4.24E-01	4.46E-01	5.25E-01	1.16E+04

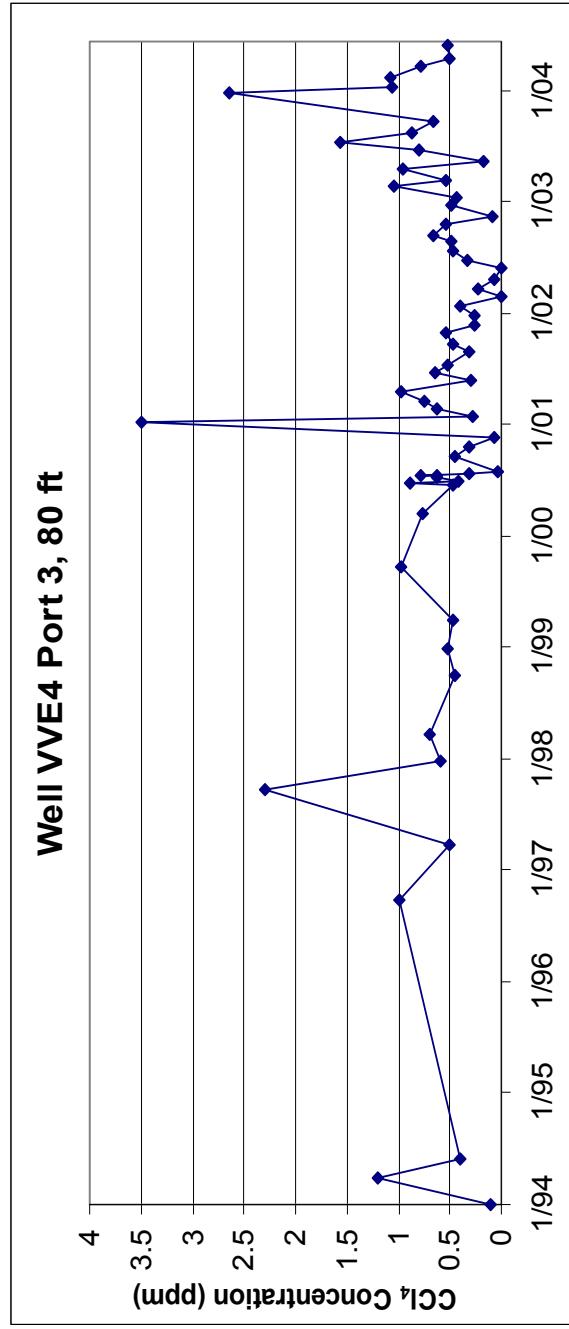


Figure 137. Carbon tetrachloride concentrations (ppmv) for Well Port VVE4-3.

Table F-138. Monitoring data for Well M6S-1 from January through June 2004.

Well Port M6S-1	Inside Fence		Frequency Q	Depth 588 ft
	N			
			CHCl ₃ (ppmv)	TCA (ppmv)
Sample Date and Time	Analysis Date and Time		1.62E+00	1.27E+00
3/2/04 9:10 AM	3/2/04 5:07 PM		2.13E-01	6.33E-01
6/9/04 11:00 AM	6/10/04 2:00 PM	2.71E+00	1.66E+00	9.50E-01
			6.18E-01	2.03E+00
				1.61E+04
				H ₂ O (ppmv)
				2.17E+00
				9.26E+03

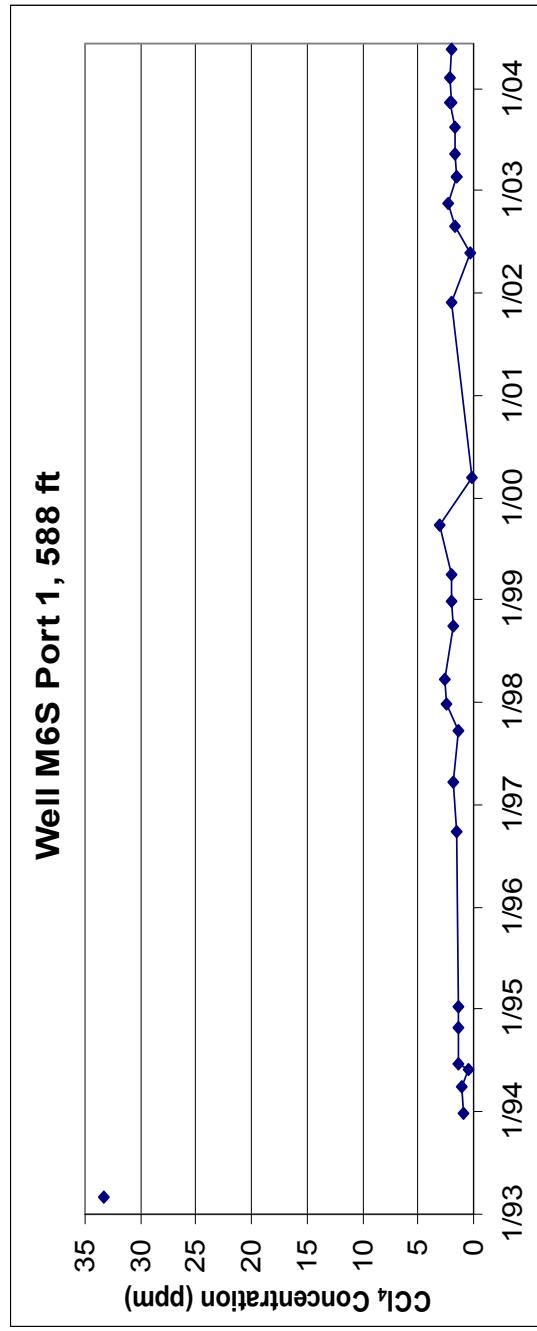


Figure F-138. Carbon tetrachloride concentrations (ppmv) for Well Port M6S-1.

Table F-139. Monitoring data for Well M6S-2 from January through June 2004.

Well Port	M6S-2	Inside Fence	Frequency	Depth
		N	Q	490 ft
Sample Date and Time		Analysis Date and Time		
3/2/04 9:11 AM		3/2/04 5:09 PM		
6/9/04 11:00 AM		6/10/04 2:15 PM		
		CHCl ₃	TCA	TCE
		(ppmv)	(ppmv)	(ppmv)
		1.98E+00	1.46E+00	2.44E-01
				8.97E-01
		2.90E+00	2.05E+00	5.58E-01
				1.15E+00
		CCl ₄		H ₂ O
		(ppmv)	(ppmv)	(ppmv)
				2.86E+00
				9.44E+03

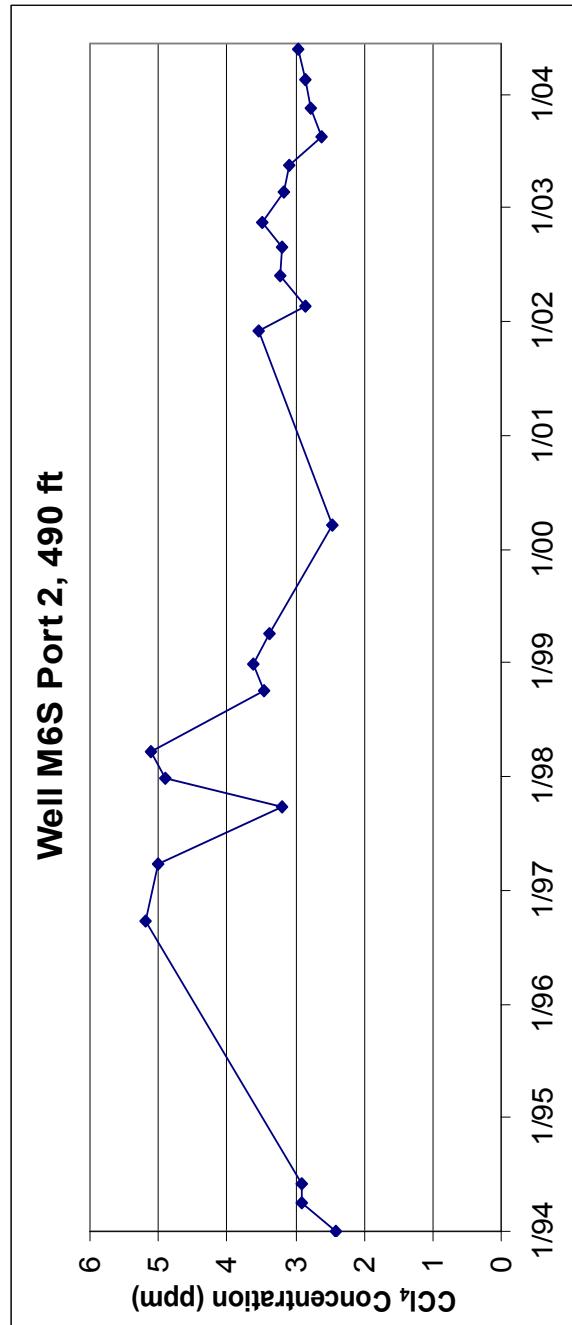


Figure 139. Carbon tetrachloride concentrations (ppmv) for Well Port M6S-2.

Table F-140. Monitoring data for Well M6S-2 from January through June 2004.

Well Port M6S-3	Inside Fence N	Frequency Q	Depth 366 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
3/2/04 9:12 AM	3/2/04 5:12 PM	1.60E+00	8.50E-01	1.62E-01	5.42E-01	1.50E+00	9.74E+03
6/9/04 11:01 AM	6/10/04 2:18 PM	2.53E+00	1.55E+00	4.13E-01	6.36E-01	1.45E+00	1.64E+04

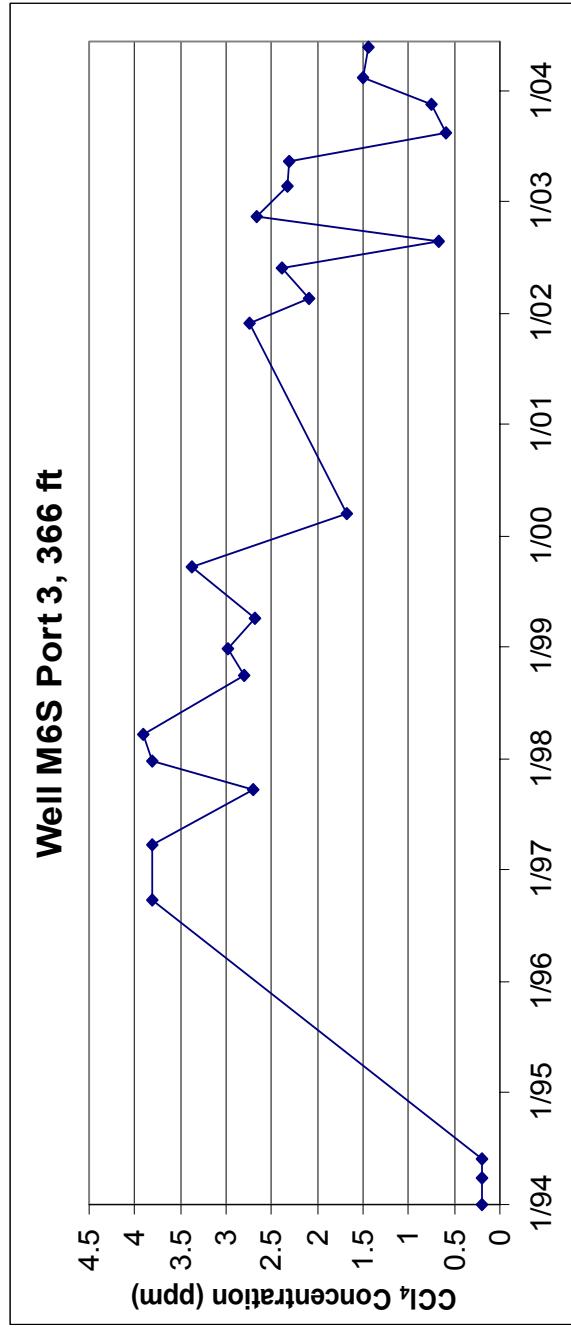


Figure 140. Carbon tetrachloride concentrations (ppmv) for Well Port M6S-3.

Table F-141. Monitoring data for Well VVE6-1 from January through June 2004.

Well Port VVE6-1	Inside Fence		Frequency Q	Depth 320 ft
	N			
			CHCl ₃ (ppmv)	TCA (ppmv)
Sample Date and Time	Analysis Date and Time		1.88E+00	1.39E+00
3/2/04 11:39 AM	3/2/04 5:15 PM		3.39E-01	7.20E-01
6/9/04 11:03 AM	6/10/04 2:21 PM	2.49E+00	3.71E-01	5.85E-01
		1.43E+00	1.23E+00	1.67E+04

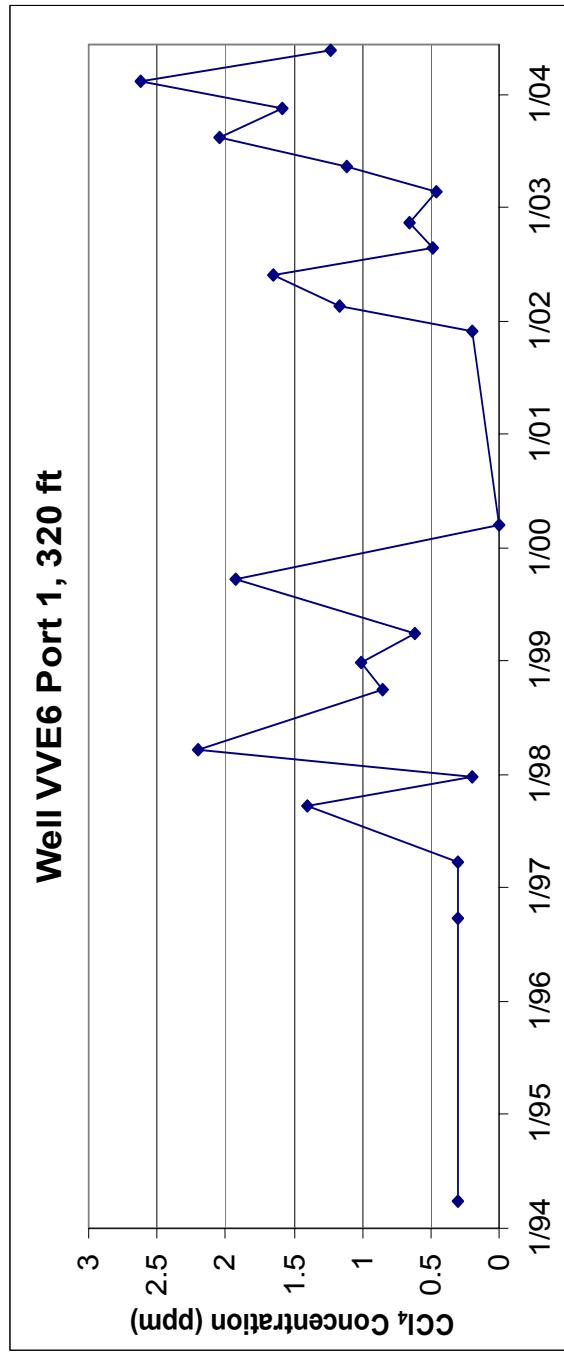


Figure 141. Carbon tetrachloride concentrations (ppmv) for Well Port VVE6-1.

Table F-142. Monitoring data for Well VVE6-2 from January through June 2004.

Well Port VVE6-2	Inside Fence		Frequency Q	Depth 187 ft
	N			
			CHCl ₃ (ppmv)	TCA (ppmv)
Sample Date and Time	Analysis Date and Time		1.66E+00	1.25E+00
3/2/04 11:40 AM	3/2/04 5:18 PM		2.12E-01	7.11E-01
6/9/04 11:03 AM	6/10/04 2:24 PM	2.36E+00	3.65E-01	8.12E-01
		1.64E+00		
			1.71E+00	1.71E+00
				1.55E+04
				9.21E+03

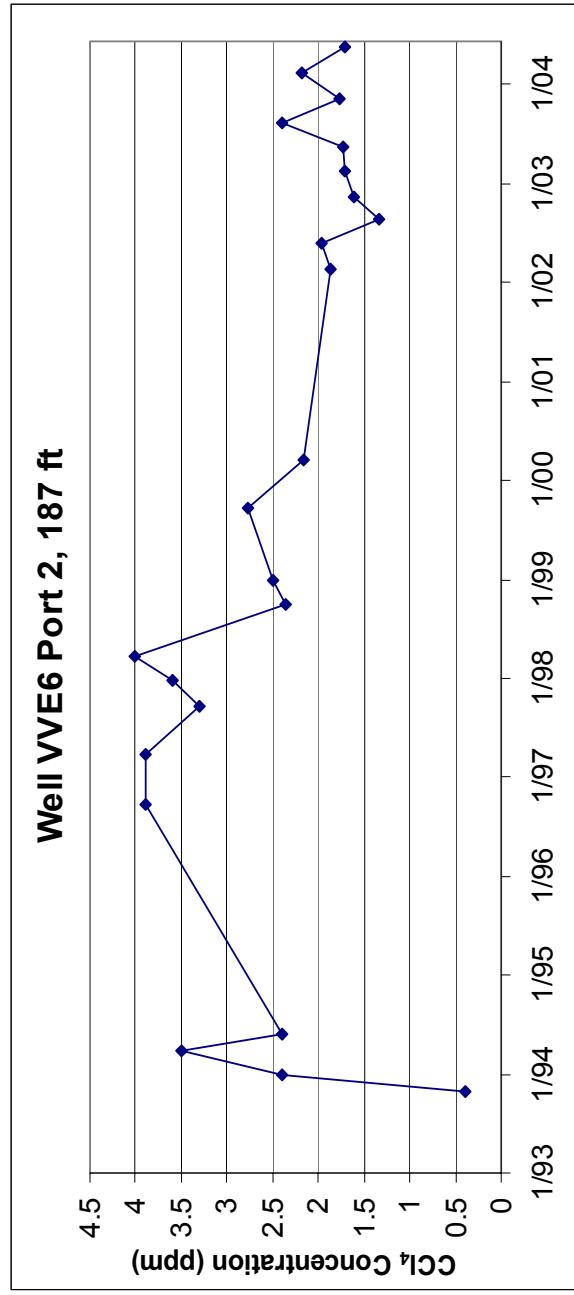


Figure 142. Carbon tetrachloride concentrations (ppmv) for Well Port VVE6-2.

Table F-143. Monitoring data for Well VVE6-3 from January through June 2004.

Sample Date and Time	Analysis Date and Time	Well Port	Inside Fence		Frequency	Depth
			VVE6-3	N		108 ft
3/2/04 11:41 AM	3/2/04 5:21 PM	CHCl ₃	TCA	PCE	TCE	CCl ₄
6/9/04 11:03 AM	6/10/04 2:27 PM	1.72E+00	1.21E+00	2.24E-01	5.92E-01	1.93E+00
		2.51E+00	1.50E+00	3.72E-01	6.42E-01	1.41E+00
						9.65E+03
						1.68E+04

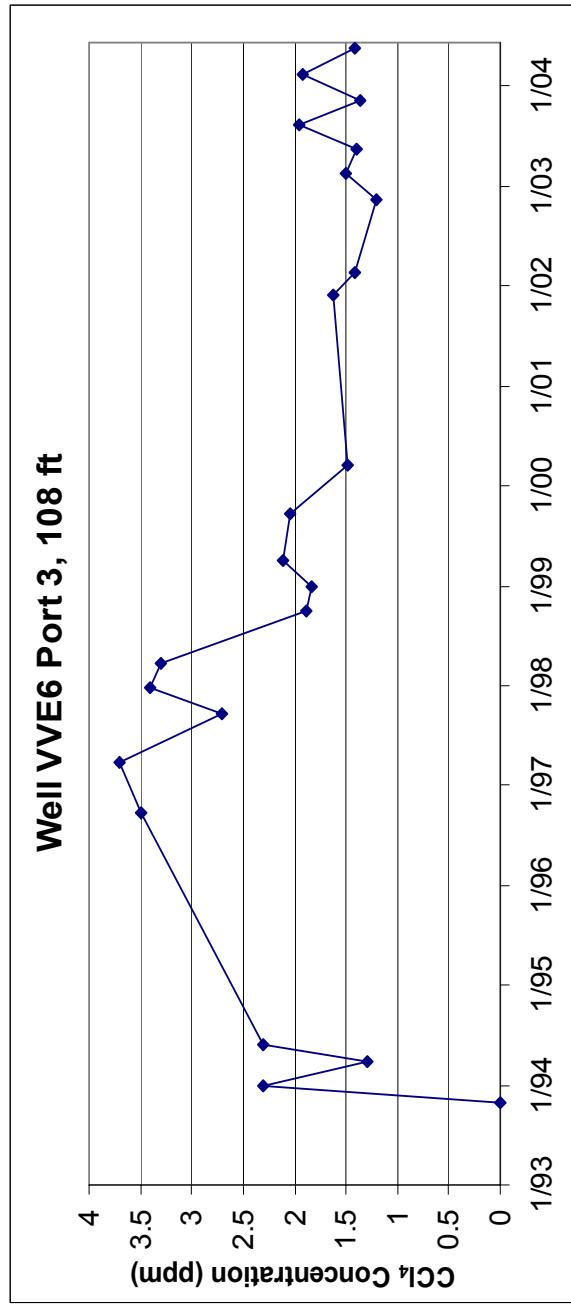


Figure 143. Carbon tetrachloride concentrations (ppmv) for Well Port VVE6-3.

Table F-144. Monitoring data for Well M7S-1 from January through June 2004.

Well Port M7S-1	Inside Fence		Frequency Q	Depth 547 ft				
	N							
Sample Date and Time	Analysis Date and Time		CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
3/2/04 10:55 AM	3/4/04 1:27 PM		1.26E+01	3.59E+00	3.06E-01	6.61E-01	1.23E+00	8.26E+03
6/14/04 12:00 PM	6/15/04 12:57 PM		6.58E+00	4.33E+00	4.67E+00	3.24E+00	6.98E+00	1.05E+04
6/14/04 12:00 PM	6/15/04 1:00 PM		6.60E+00	3.92E+00	3.41E+00	2.64E+00	5.38E+00	1.06E+04

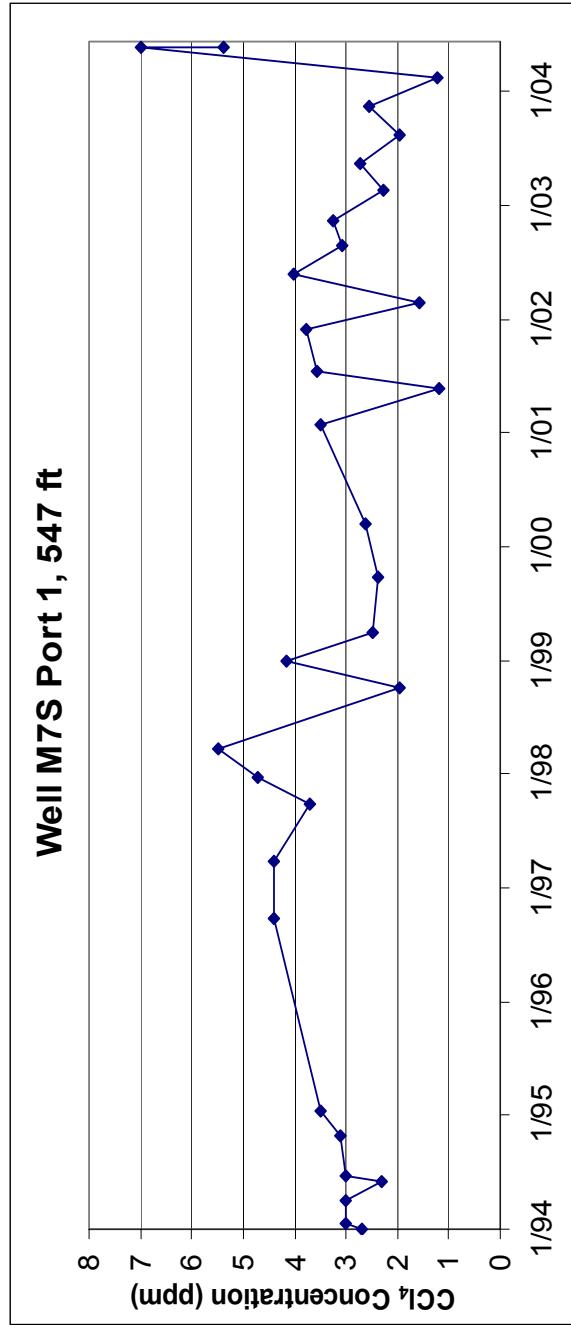


Figure 144. Carbon tetrachloride concentrations (ppmv) for Well Port M7S-1.

Table F-145. Monitoring data for Well M7S-2 from January through June 2004.

Well Port M7S-2	Inside Fence N	Frequency Q	Depth 448 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
3/2/04 10:56 AM	3/4/04 1:30 PM	2.57E+00	1.58E+00	3.35E-01	8.38E-01	2.56E+00	8.21E+03
6/14/04 12:01 PM	6/15/04 1:03 PM	3.33E+00	2.83E+00	2.72E+00	2.57E+00	5.09E+00	1.07E+04

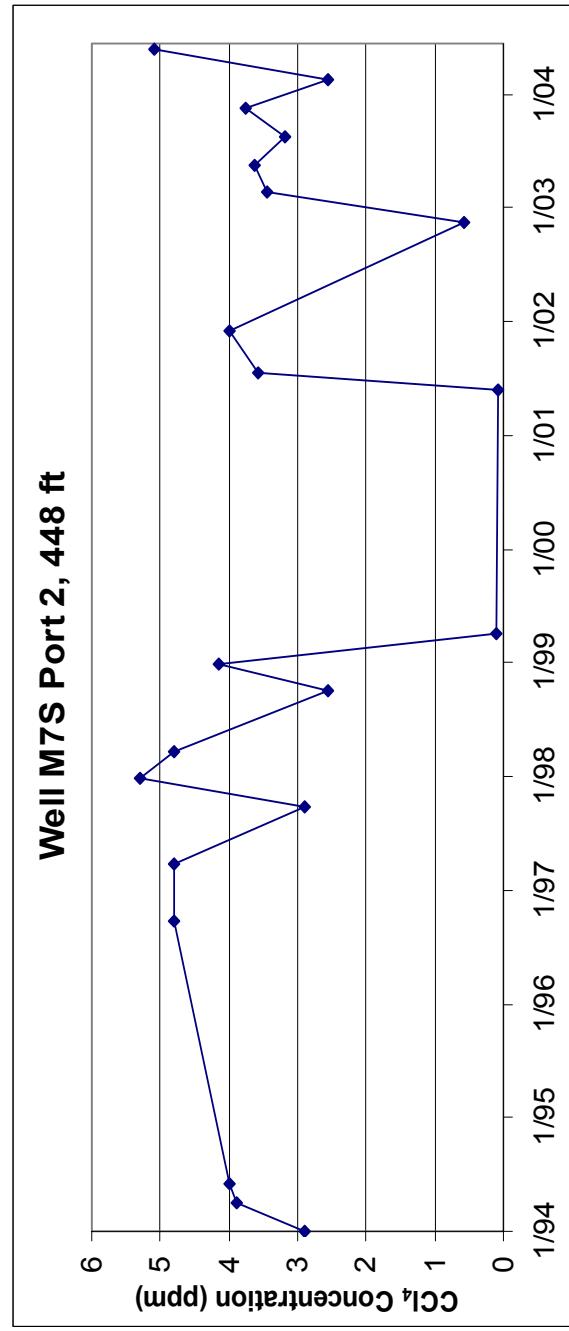


Figure 145. Carbon tetrachloride concentrations (ppmv) for Well Port M7S-2.

Table F-146. Monitoring data for Well M7S-3 from January through June 2004.

Well Port M7S-3	Inside Fence		Frequency Q	Depth 367 ft
	N			
			CHCl ₃ (ppmv)	TCA (ppmv)
Sample Date and Time	Analysis Date and Time		2.11E+00	1.63E+00
3/2/04 10:57 AM	3/4/04 1:33 PM		2.30E-01	8.87E-01
6/9/04 11:13 AM	6/10/04 2:31 PM	2.74E+00	2.01E+00	3.85E-01
				9.31E-01
				2.59E+00
				1.76E+04

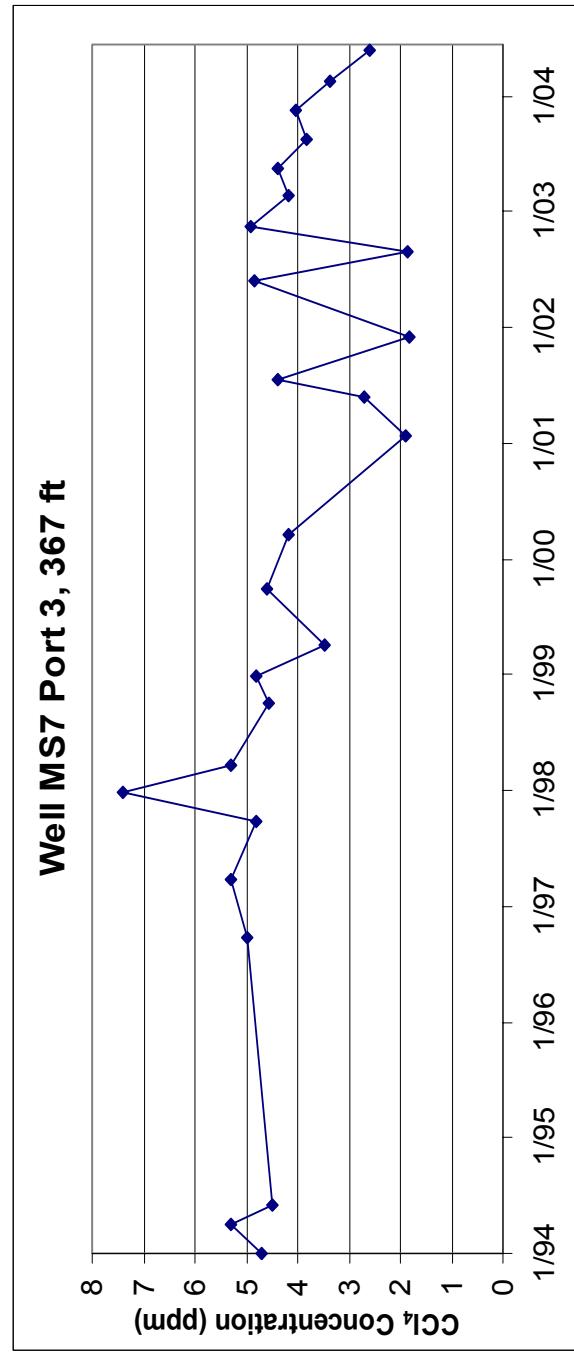


Figure 146. Carbon tetrachloride concentrations (ppmv) for Well Port M7S-3.

Table F-147. Monitoring data for Well VVE7-1 from January through June 2004.

Well Port VVE7-1	Inside Fence		Frequency Q	Depth 198 ft
	N			
			CHCl ₃ (ppmv)	TCA (ppmv)
Sample Date and Time	Analysis Date and Time		1.74E+00	1.28E+00
3/2/04 10:52 AM	3/4/04 1:18 PM		2.57E-01	4.60E-01
6/9/04 11:23 AM	6/10/04 2:33 PM	2.74E+00	4.55E-01	1.03E+00
				2.40E+00
				1.70E+04
				H ₂ O (ppmv)
				8.13E+03
				1.78E+00
				2.40E+00
				1.70E+04

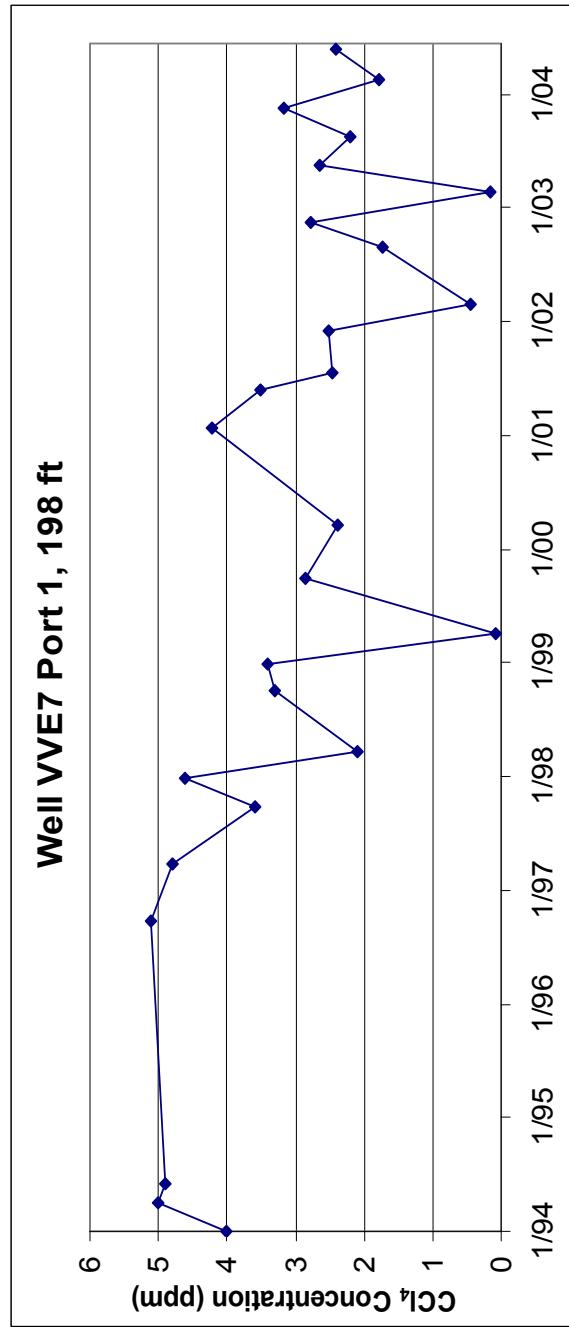


Figure 147. Carbon tetrachloride concentrations (ppmv) for Well Port VVE7-1.

Table F-148. Monitoring data for Well VVE7-2 from January through June 2004.

Well Port VVE7-2	Inside Fence		Frequency Q	Depth 133 ft				
	N							
Sample Date and Time	Analysis Date and Time		CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
3/2/04 10:53 AM	3/4/04 1:21 PM		3.03E+00	1.49E+00	2.43E-01	5.53E-01	1.89E+00	8.06E+03
6/9/04 11:23 AM	6/10/04 2:36 PM		4.01E+00	2.08E+00	4.20E-01	1.00E+00	2.03E+00	1.66E+04
6/9/04 11:23 AM	6/10/04 2:39 PM		4.45E+00	2.16E+00	3.91E-01	9.56E-01	1.99E+00	1.66E+04

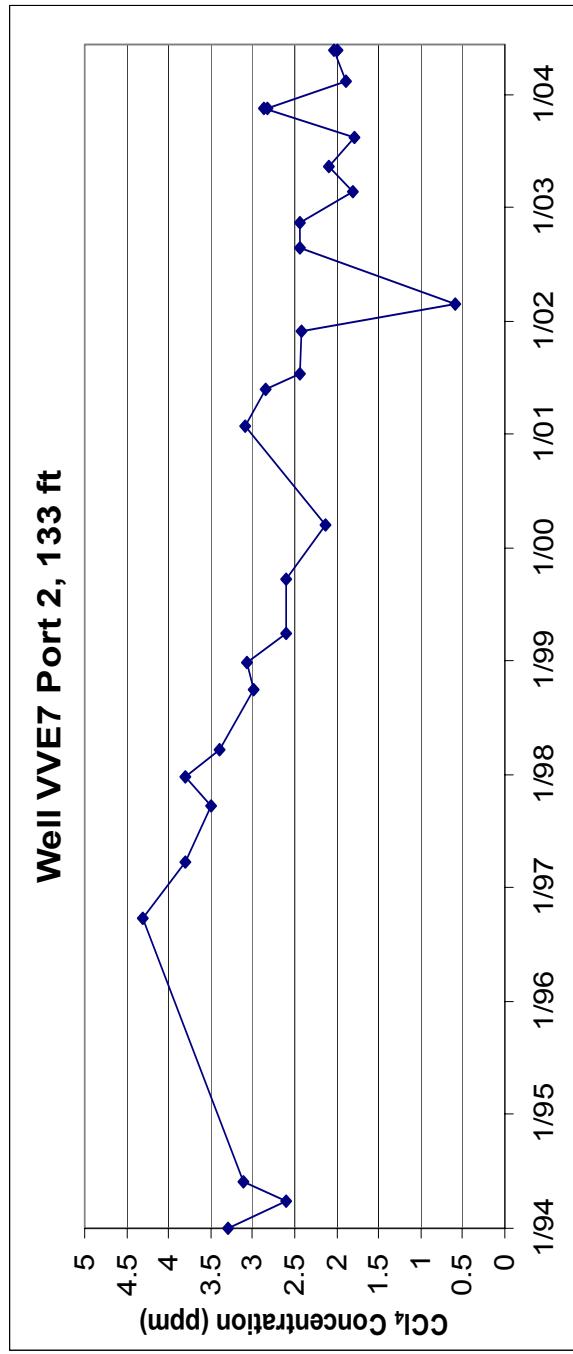


Figure 148. Carbon tetrachloride concentrations (ppmv) for Well Port VVE7-2.

Table F-149. Monitoring data for Well VVE7-3 from January through June 2004.

Well Port VVE7-3	Inside Fence N	Frequency Q	Depth 77 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃	TCA	PCE	TCE	CCl ₄	H ₂ O
3/2/04 10:54 AM	3/4/04 1:24 PM	2.25E+00	1.16E+00	1.98E-01	4.69E-01	1.26E+00	8.22E+03
6/9/04 12:02 PM	6/10/04 2:45 PM	3.07E+00	1.60E+00	2.95E-01	6.02E-01	1.21E+00	1.70E+04

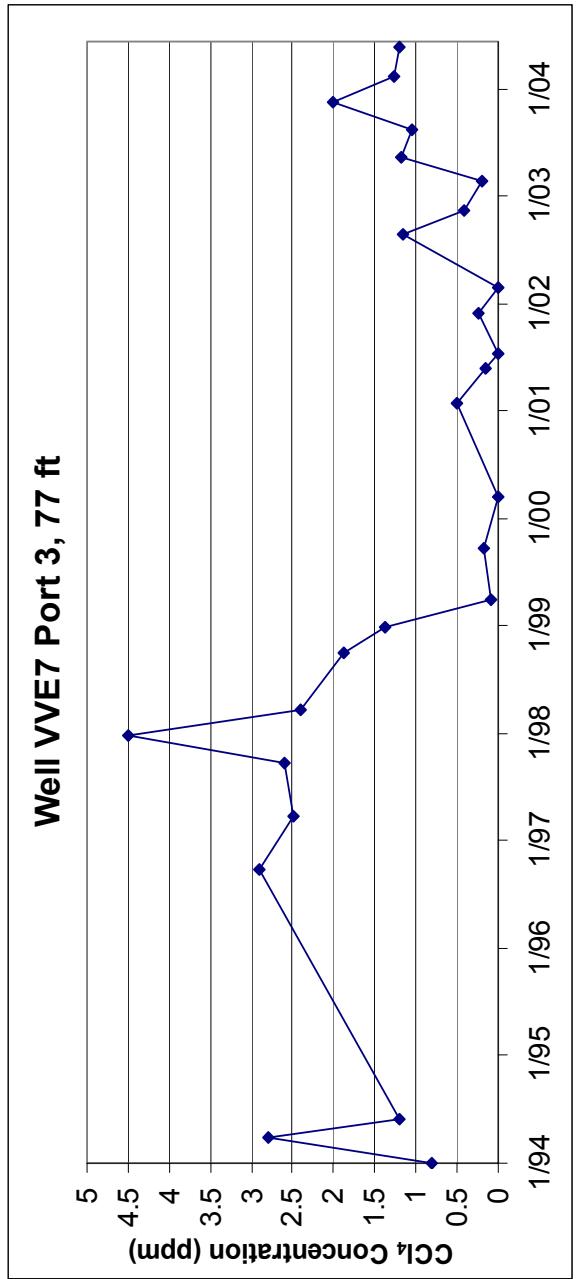


Figure 149. Carbon tetrachloride concentrations (ppmv) for Well Port VVE7-3.

Table F-150. Monitoring data for Well M10S-2 from January through June 2004.

Well Port M10S-2	Inside Fence N	Frequency M	Depth 455 ft

No sample taken for this reporting period.

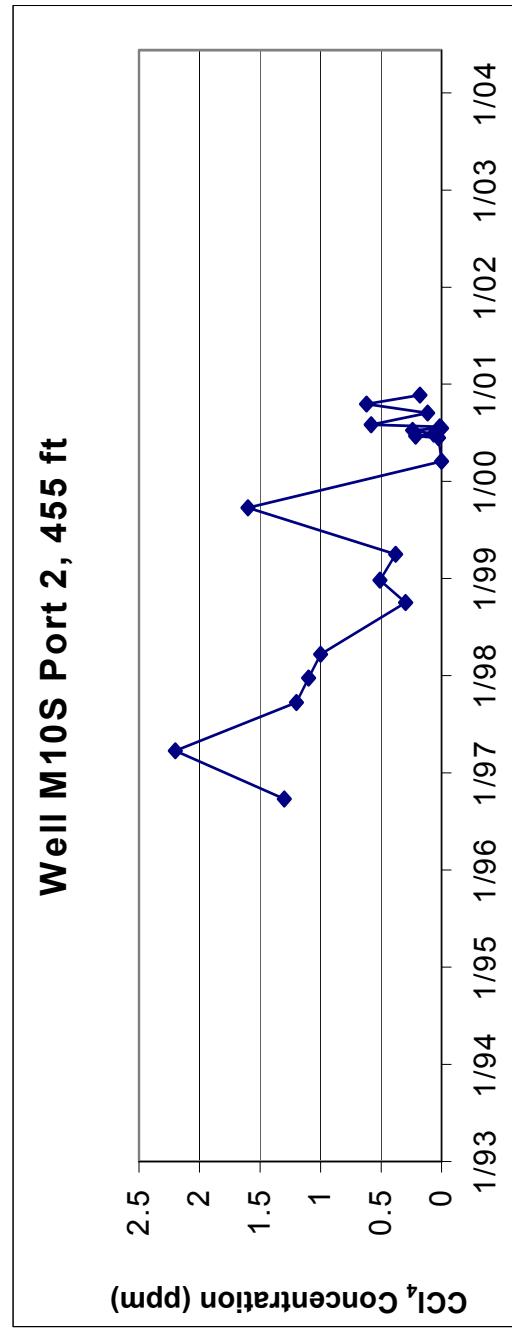


Figure 150. Carbon tetrachloride concentrations (ppmv) for Well Port M10S-2.

Table F-151. Monitoring data for Well M10S-3 from January through June 2004.

Sample Date and Time	Well Port M10S-3	Inside Fence		Frequency M	Depth 357 ft						
		N	Analysis Date and Time			CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/12/04 11:00 AM			1/13/04 8:24 AM			3.39E+00	2.43E+00	4.67E+00	4.77E+00	1.17E+01	3.88E+03
2/2/04 9:42 AM			2/2/04 2:36 PM	1.10E+00	5.45E-01	1.53E-01	1.34E-01	5.01E-01	6.15E+03		
3/2/04 8:29 AM			3/2/04 4:18 PM	1.27E+00	5.57E-01	4.83E-02	2.93E-01	8.15E-01	9.44E+03		
4/8/04 10:20 AM			4/8/04 3:08 PM	2.61E+00	7.29E-01	9.74E-02	2.58E-01	6.23E-01	1.60E+04		
5/3/04 10:17 AM			5/4/04 11:48 AM	4.57E+00	1.08E+00	2.14E-01	3.94E-01	6.88E-01	1.31E+04		
6/14/04 2:15 PM			6/15/04 2:03 PM	3.11E+00	1.37E+00	3.67E-01	3.77E-01	1.54E-01	1.15E+04		

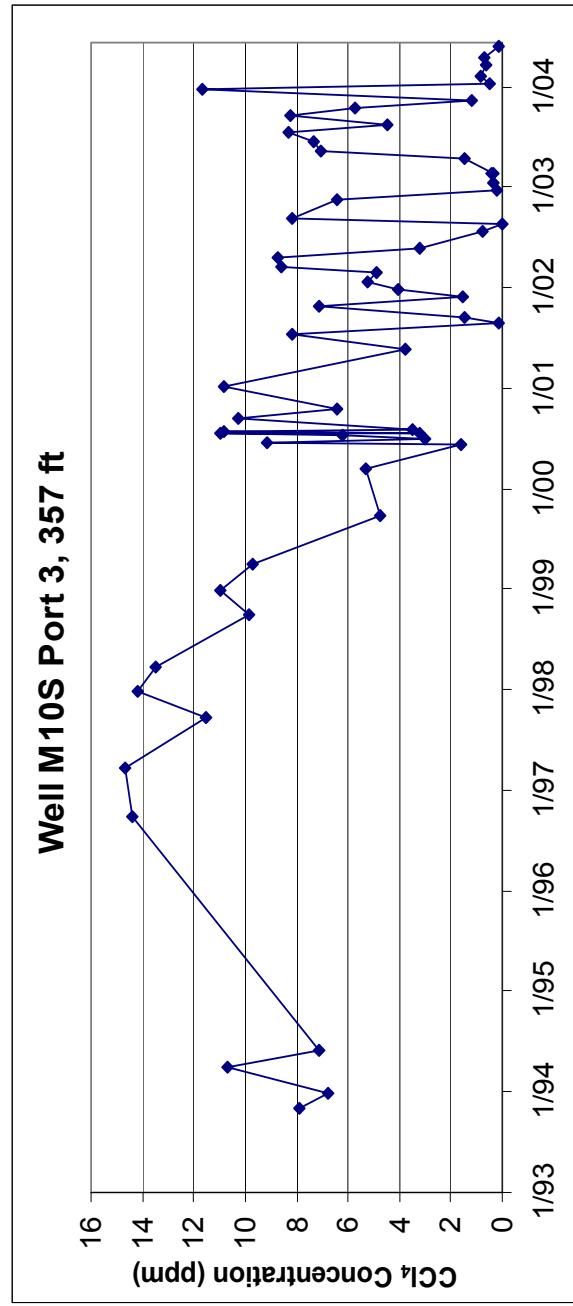


Figure 151. Carbon tetrachloride concentrations (ppmv) for Well Port M10S-3.

Table F-152. Monitoring data for Well M10S-4 from January through June 2004.

Well Port M10S-4	Inside Fence N	Frequency M	Depth 295 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/12/04 11:02 AM	1/13/04 8:27 AM	3.41E+00	2.16E+00	3.43E+00	4.55E+00	1.14E+01	3.95E+03
2/2/04 9:43 AM	2/2/04 2:30 PM	7.79E-01	5.46E-01	1.64E-01	2.06E-01	4.57E-01	6.34E+03
2/2/04 9:43 AM	2/2/04 2:33 PM	8.68E-01	3.30E-01	1.44E-01	2.96E-01	4.18E-01	6.34E+03
3/2/04 8:29 AM	3/2/04 4:21 PM	9.30E-01	5.49E-01	1.29E-01	2.00E-01	6.20E-01	9.58E+03
4/8/04 10:20 AM	4/8/04 3:11 PM	1.61E+00	7.32E-01	1.02E-01	1.66E-01	4.83E-01	1.61E+04
4/8/04 10:20 AM	4/8/04 3:14 PM	1.65E+00	8.46E-01	1.17E-01	1.95E-01	4.48E-01	1.62E+04
5/3/04 10:17 AM	5/4/04 11:51 AM	3.30E+00	1.78E+00	3.85E-01	9.00E-01	2.99E+00	1.32E+04
6/14/04 2:15 PM	6/15/04 2:06 PM	2.34E+00	1.18E+00	3.79E-01	2.98E-01	8.04E-02	1.16E+04

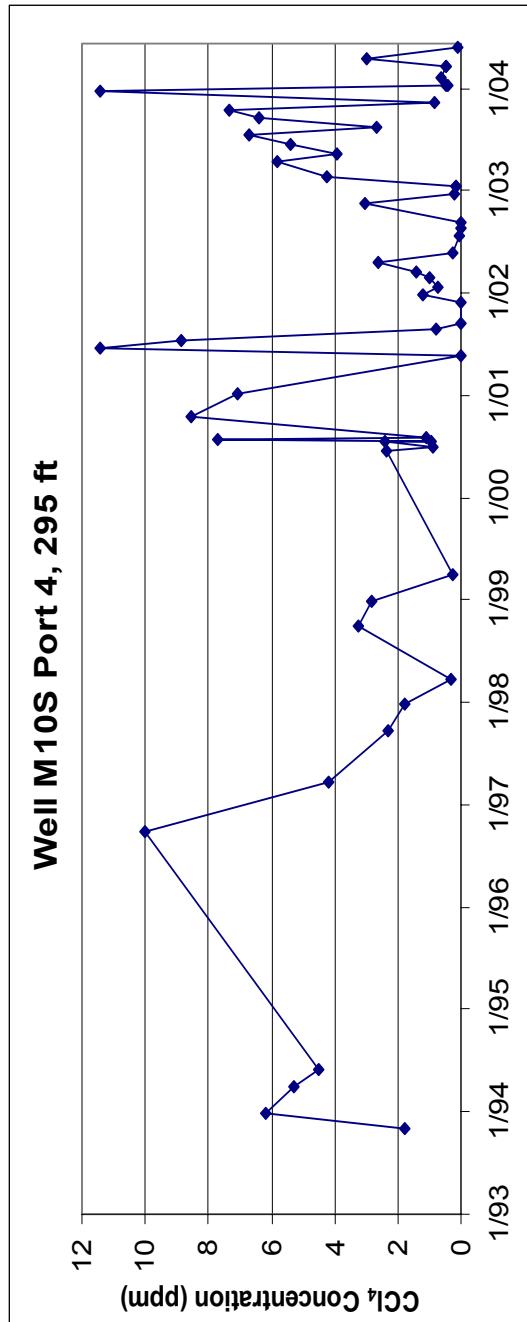


Figure 152. Carbon tetrachloride concentrations (ppmv) for Well Port M10S-4.

Table F-153. Monitoring data for Well M10SR-1 from January through June 2004.

Well Port M10SR-1	Inside Fence N	Frequency M	Depth 530 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/12/04 11:17 AM	1/13/04 10:03 AM	2.57E+00	1.82E+00	5.49E-01	1.98E+00	7.68E+00	4.06E+03
2/2/04 9:50 AM	2/2/04 2:39 PM	2.19E+00	1.73E+00	4.12E-01	1.10E+00	5.69E+00	6.35E+03
3/2/04 8:28 AM	3/2/04 4:09 PM	2.54E+00	1.78E+00	3.13E-01	9.07E-01	4.32E+00	1.07E+04
4/8/04 10:19 AM	4/8/04 3:03 PM	1.70E+00	1.09E+00	3.56E-01	4.28E-01	1.61E+00	1.63E+04
5/3/04 10:15 AM	5/4/04 11:42 AM	2.73E+00	1.19E+00	1.85E-01	3.06E-01	4.05E-01	1.34E+04
6/14/04 2:20 PM	6/15/04 2:09 PM	3.87E+00	2.63E+00	6.50E-01	1.32E+00	6.02E+00	1.17E+04

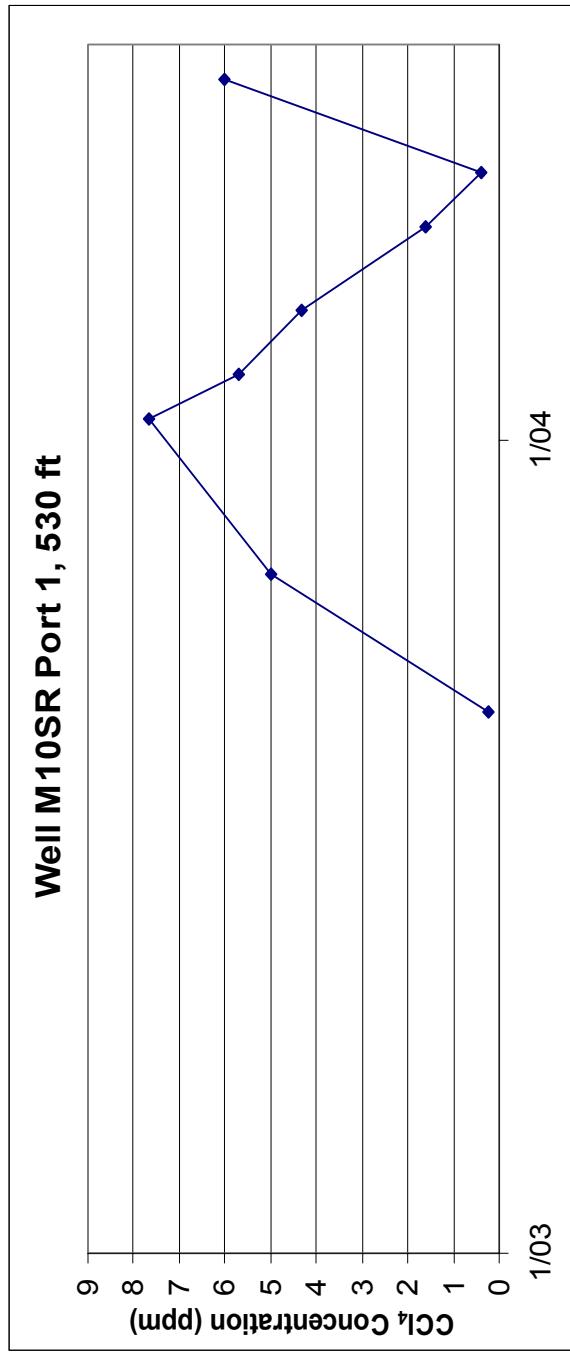


Figure 153. Carbon tetrachloride concentrations (ppmv) for Well Port M10SR-1.

Table F-154. Monitoring data for Well M10SR-2 from January through June 2004.

Well Port M10SR-2	Inside Fence N	Frequency Q	Depth 350 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/12/04 11:17 AM	1/13/04 10:00 AM	1.99E+00	7.18E-01	2.80E-01	1.35E+00	3.40E+00	4.05E+03
2/2/04 9:51 AM	2/2/04 2:42 PM	1.32E+00	7.28E-01	2.60E-01	5.80E-01	2.09E+00	6.29E+03
3/2/04 8:29 AM	3/2/04 4:12 PM	1.28E+00	7.57E-01	1.27E-01	4.33E-01	1.85E+00	9.45E+03
3/2/04 8:29 AM	3/2/04 4:15 PM	1.42E+00	5.06E-01	1.43E-01	4.43E-01	1.75E+00	9.42E+03
4/8/04 10:20 AM	4/8/04 3:05 PM	2.15E+00	7.65E-01	1.11E-01	2.31E-01	5.38E-01	1.61E+04
5/3/04 10:16 AM	5/4/04 11:45 AM	3.18E+00	1.31E+00	1.41E-01	3.48E-01	4.39E-01	1.32E+04
6/14/04 2:20 PM	6/15/04 2:12 PM	1.54E+00	1.35E+00	4.30E-01	2.94E-01	2.33E-01	1.20E+04

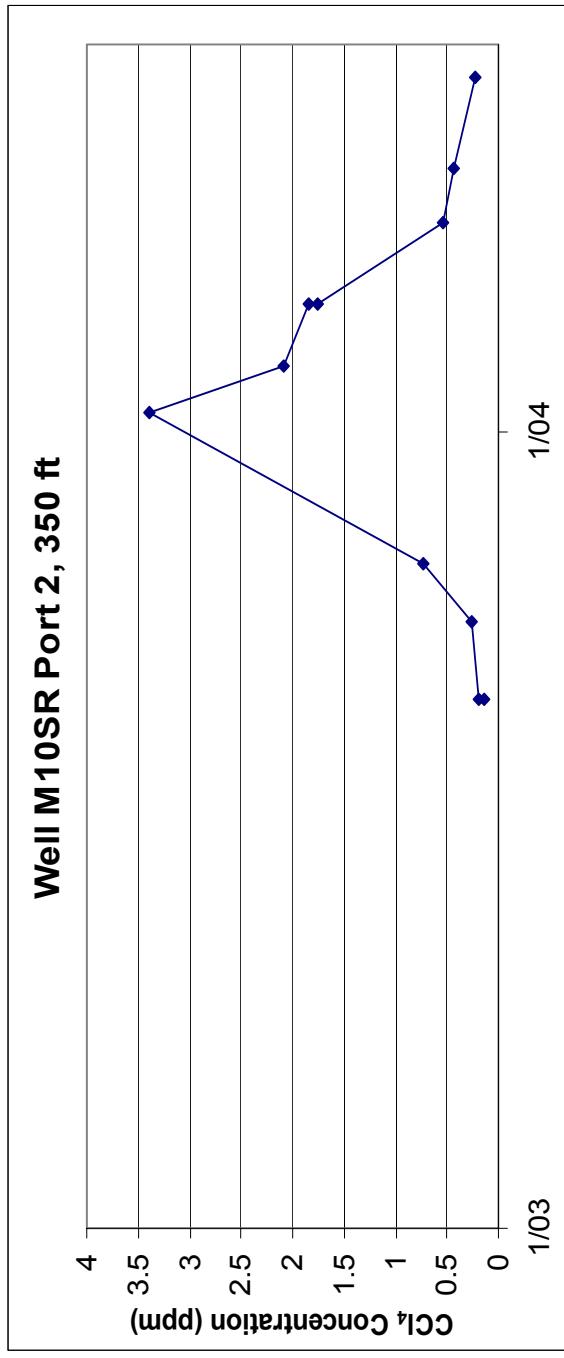


Figure 154. Carbon tetrachloride concentrations (ppmv) for Well Port M10SR-2.

Table F-155. Monitoring data for Well VVE10-1 from January through June 2004.

Well Port VVE10-1	Inside Fence N	Frequency M	Depth 198 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/12/04 11:12 AM	1/12/04 4:59 PM	2.02E+00	9.18E-01	4.46E-01	2.55E+00	6.32E+00	7.30E+03
2/2/04 9:45 AM	2/2/04 12:49 PM	8.69E-01	9.90E-01	3.14E+00	1.47E+00	2.76E+00	7.59E+03
3/2/04 8:24 AM	3/2/04 4:24 PM	9.09E-01	5.16E-01	7.55E-02	2.28E-01	5.78E-01	9.61E+03
4/8/04 10:22 AM	4/8/04 3:17 PM	1.65E+00	6.75E-01	6.04E-02	1.58E-01	2.12E-01	1.63E+04
5/3/04 10:13 AM	5/4/04 11:55 AM	2.67E+00	1.28E+00	1.41E-01	7.20E-01	1.91E+00	1.33E+04
6/14/04 2:20 PM	6/15/04 2:15 PM	2.14E+00	1.18E+00	3.43E-01	2.37E-01	2.13E-01	1.16E+04

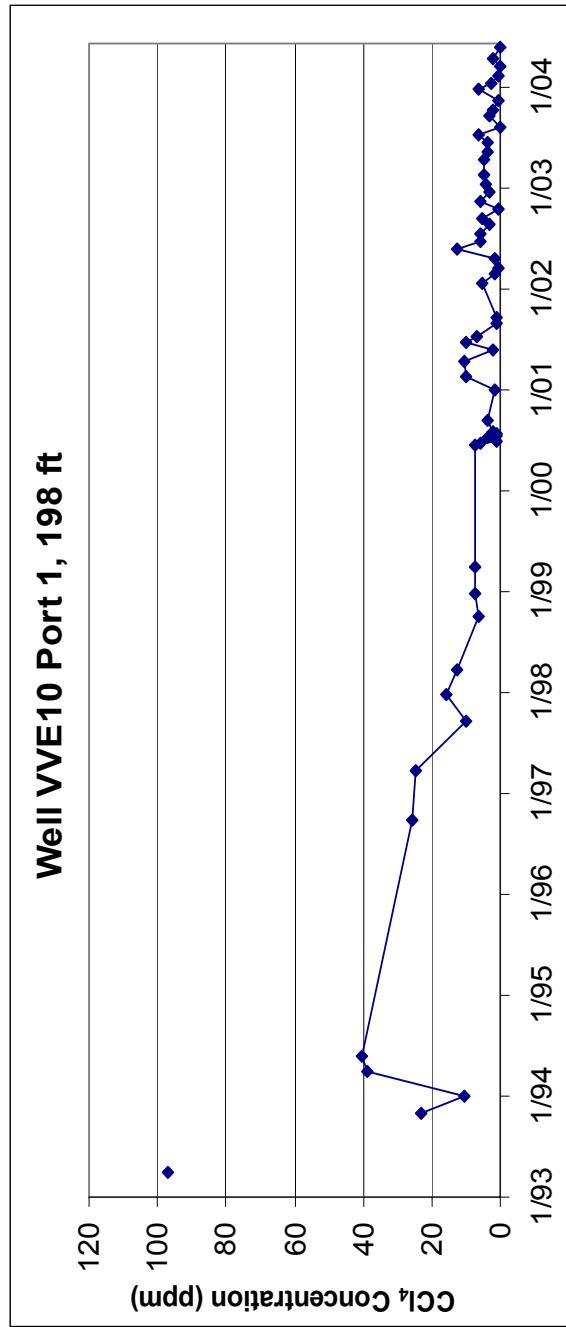


Figure F-155. Carbon tetrachloride concentrations (ppmv) for Well Port VVE10-1.

Table F-156. Monitoring data for Well VVE10-2 from January through June 2004.

Well Port VVE10-2	Inside Fence		Frequency M	Depth 138 ft				
	V	N						
Sample Date and Time	Analysis Date and Time							
1/12/04 11:12 AM	1/12/04 5:02 PM		3.08E+00	2.82E+00	8.36E-01	3.69E+00	1.43E+01	7.37E+03
2/2/04 9:46 AM	2/2/04 12:52 PM		2.21E+00	2.77E+00	2.48E+00	2.59E+00	1.02E+01	6.99E+03
3/2/04 8:25 AM	3/2/04 4:27 PM		1.11E+00	7.40E-01	1.38E-01	2.50E-01	1.39E+00	9.54E+03
4/8/04 10:23 AM	4/8/04 3:21 PM		1.37E+00	7.06E-01	1.20E-01	1.03E-01	5.67E-01	1.61E+04
4/8/04 10:23 AM	4/8/04 3:24 PM		1.57E+00	7.41E-01	1.02E-01	8.30E-02	5.28E-01	1.62E+04
5/3/04 10:13 AM	5/4/04 11:57 AM		1.99E+00	7.67E-01	1.89E-01	1.72E-01	3.27E-01	1.33E+04
6/14/04 2:20 PM	6/15/04 2:18 PM		3.18E+00	2.19E+00	4.47E-01	1.33E+00	5.97E+00	1.17E+04

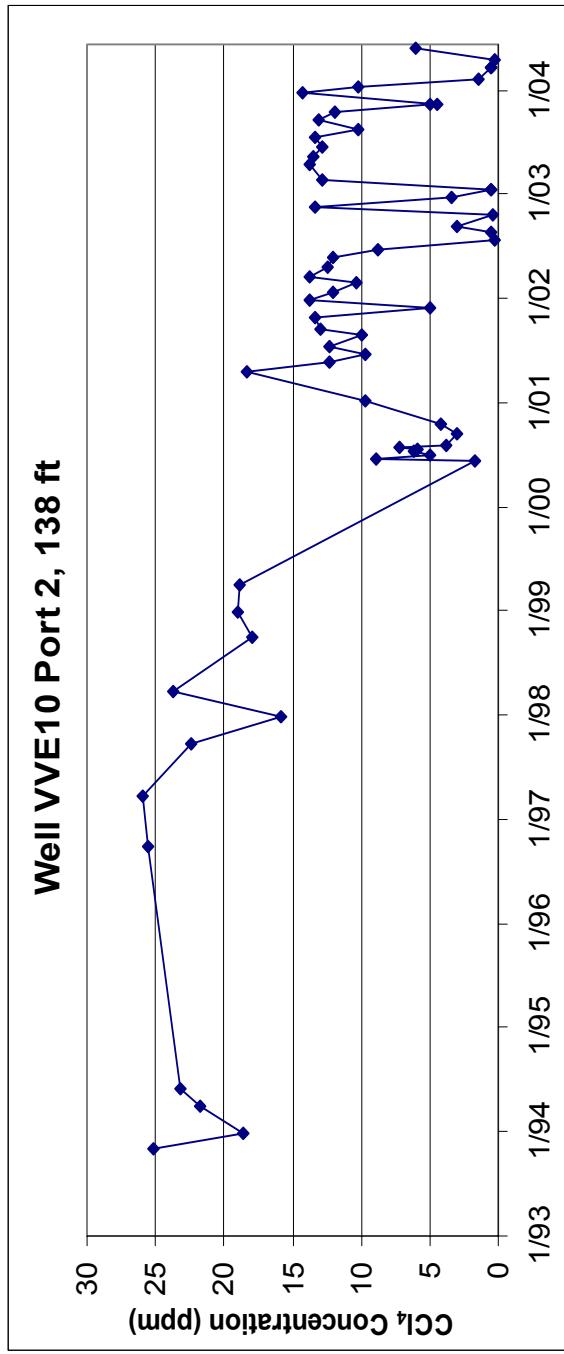


Figure F-156. Carbon tetrachloride concentrations (ppmv) for Well Port VVE10-2.

Table F-157. Monitoring data for Well VVE10-3 from January through June 2004.

Sample Date and Time	Analysis Date and Time	Frequency	Depth	
			M	75 ft
1/12/04 11:12 AM	1/12/04 5:08 PM	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)
2/2/04 9:47 AM	2/2/04 12:55 PM	2.14E+00	1.63E+00	1.28E+00
3/2/04 8:26 AM	3/2/04 4:33 PM	1.98E+00	1.28E+00	8.91E-01
4/8/04 10:23 AM	4/8/04 3:26 PM	1.86E+00	8.24E-01	4.31E-01
5/3/04 10:13 AM	5/4/04 12:00 PM	3.56E+00	1.49E+00	6.66E-01
6/14/04 2:20 PM	6/15/04 2:24 PM	3.23E+00	1.67E+00	5.05E-01
				1.14E+00
				1.16E+04

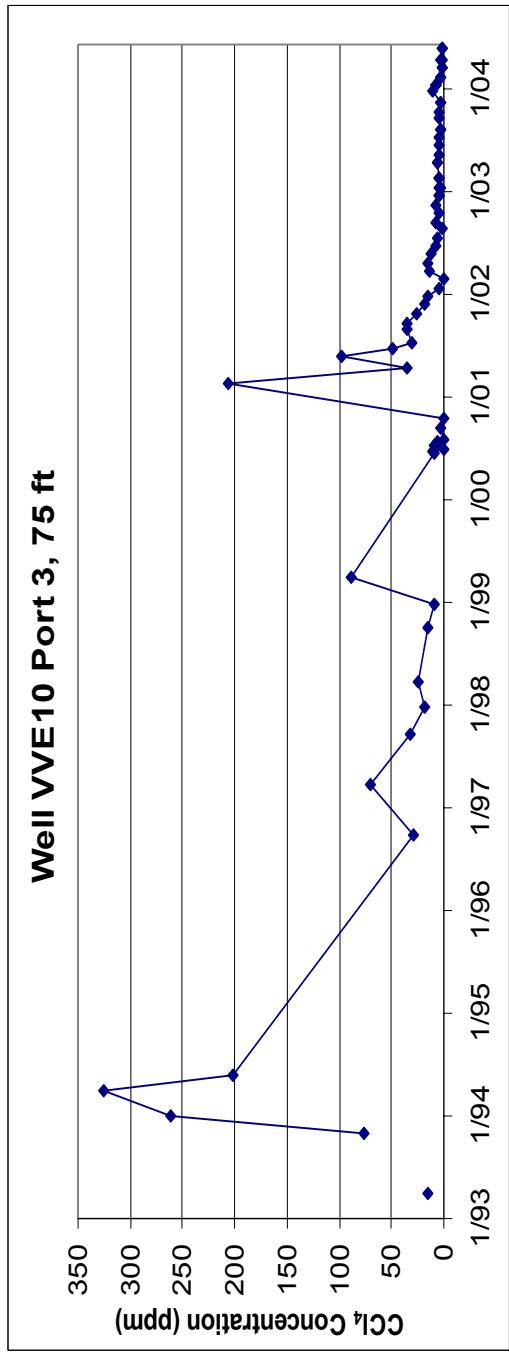


Figure 157. Carbon tetrachloride concentrations (ppmv) for Well Port VVE10-3.

Table F-158. Monitoring data for Well M11S-1 from January through June 2004.

Well Port M11S-1	Inside Fence N	Frequency Q	Depth 557 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
3/2/04 10:38 AM	3/2/04 5:27 PM	1.32E+00	5.16E-01	1.16E-01	1.61E-01	3.47E-01	9.62E+03
6/9/04 12:02 PM	6/10/04 2:48 PM	2.65E+00	1.34E+00	2.88E-01	6.48E-01	6.87E-01	1.69E+04

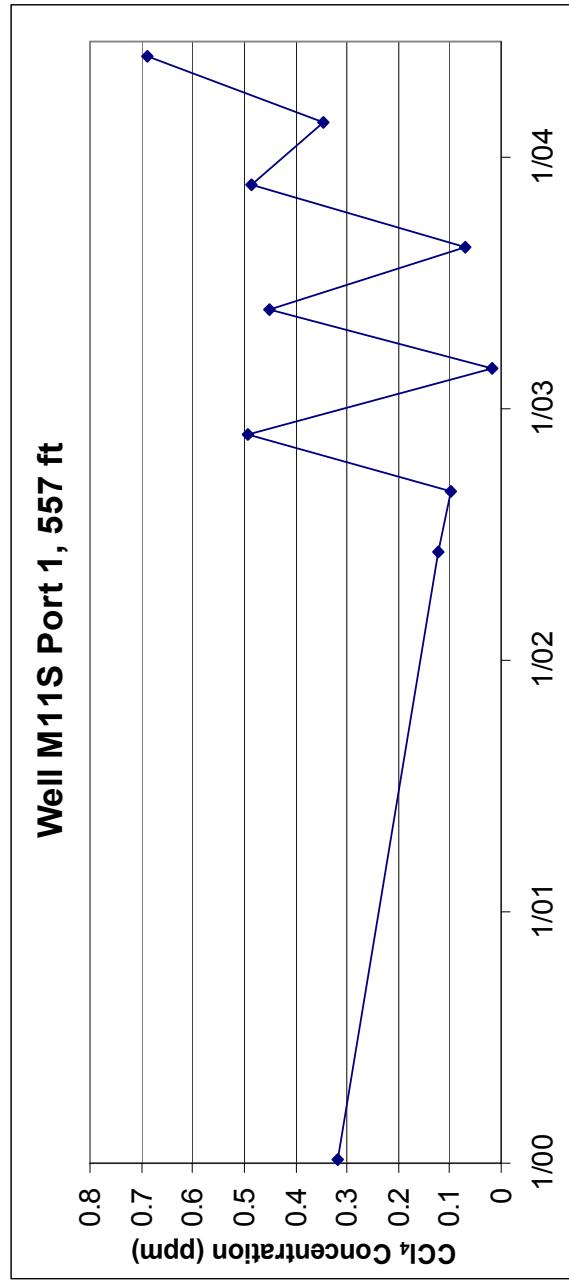


Figure 158. Carbon tetrachloride concentrations (ppmv) for Well Port M11S-1.

Table F-159. Monitoring data for Well M13S-1 from January through June 2004.

Well Port M13S-1	Inside Fence N	Frequency Q	Depth 591 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
3/2/04 10:27 AM	3/2/04 5:51 PM	1.52E+00	8.00E-01	1.46E-01	1.31E-01	5.94E-01	9.65E+03
6/9/04 12:06 PM	6/10/04 2:54 PM	2.44E+00	1.46E+00	2.84E-01	4.48E-01	5.09E-01	1.68E+04

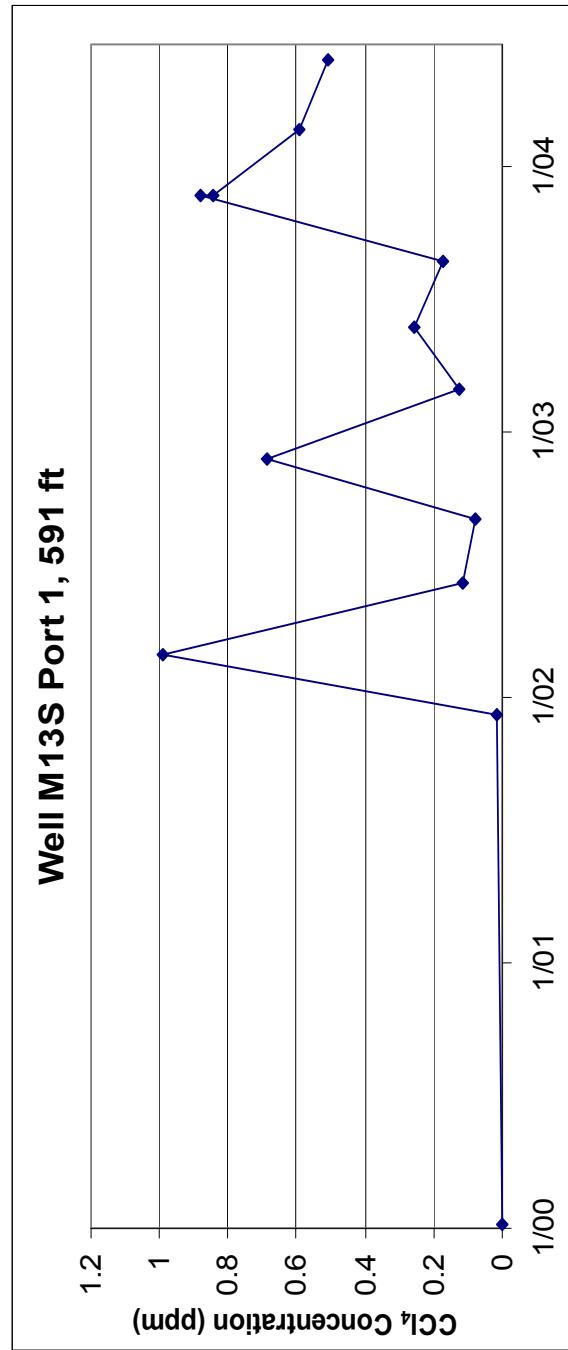


Figure 159. Carbon tetrachloride concentrations (ppmv) for Well Port M13S-1.

Table F-160. Monitoring data for Well M14S-1 from January through June 2004.

Well Port M14S-1	Inside Fence N	Frequency Q	Depth 581 ft
Sample Date and Time	Analysis Date and Time		
3/2/04 9:56 AM	3/4/04 12:33 PM	1.43E+00	7.15E-01
6/9/04 12:02 PM	6/10/04 3:21 PM	2.52E+00	1.22E+00
			1.80E-01
			2.80E-01
			1.25E-01
			1.66E-01

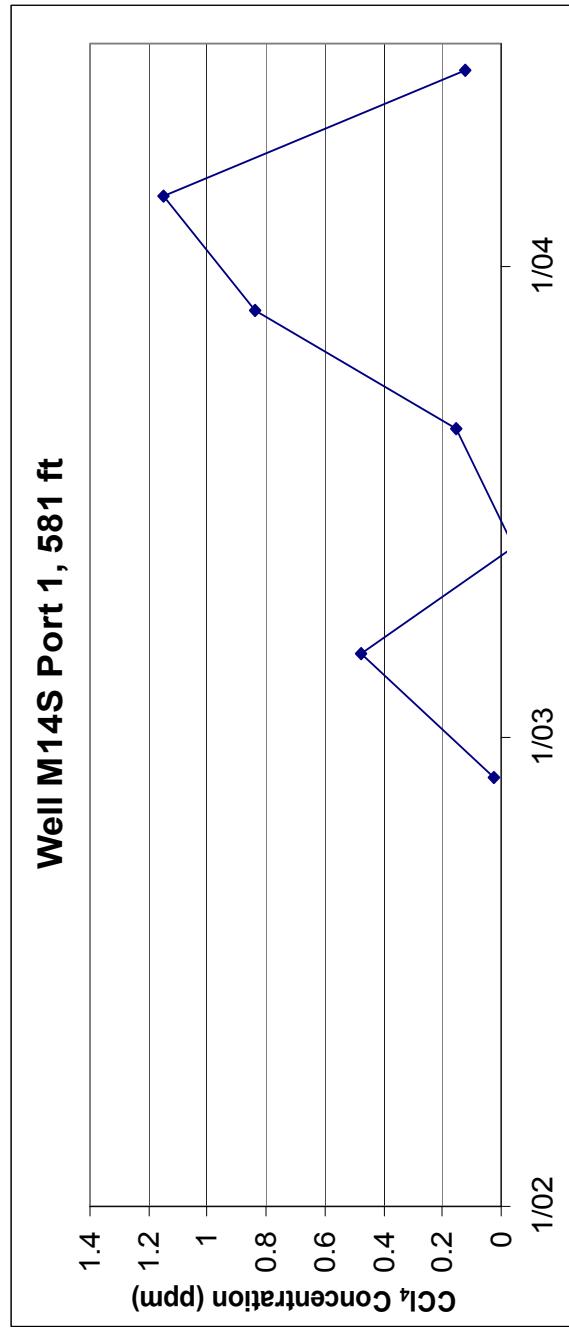


Figure 160. Carbon tetrachloride concentrations (ppmv) for Well Port M14S-1.

Table F-161. Monitoring data for Well M15S-1 from January through June 2004.

Well Port M15S-1	Inside Fence N	Frequency Q	Depth 540 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
3/2/04 11:49 AM	3/2/04 3:24 PM	1.13E+00	1.12E+00	2.63E-01	6.60E-01	2.08E+00	1.00E+04
6/14/04 2:00 PM	6/15/04 2:34 PM	2.57E+00	1.59E+00	3.49E-01	4.72E-01	1.06E+00	1.15E+04

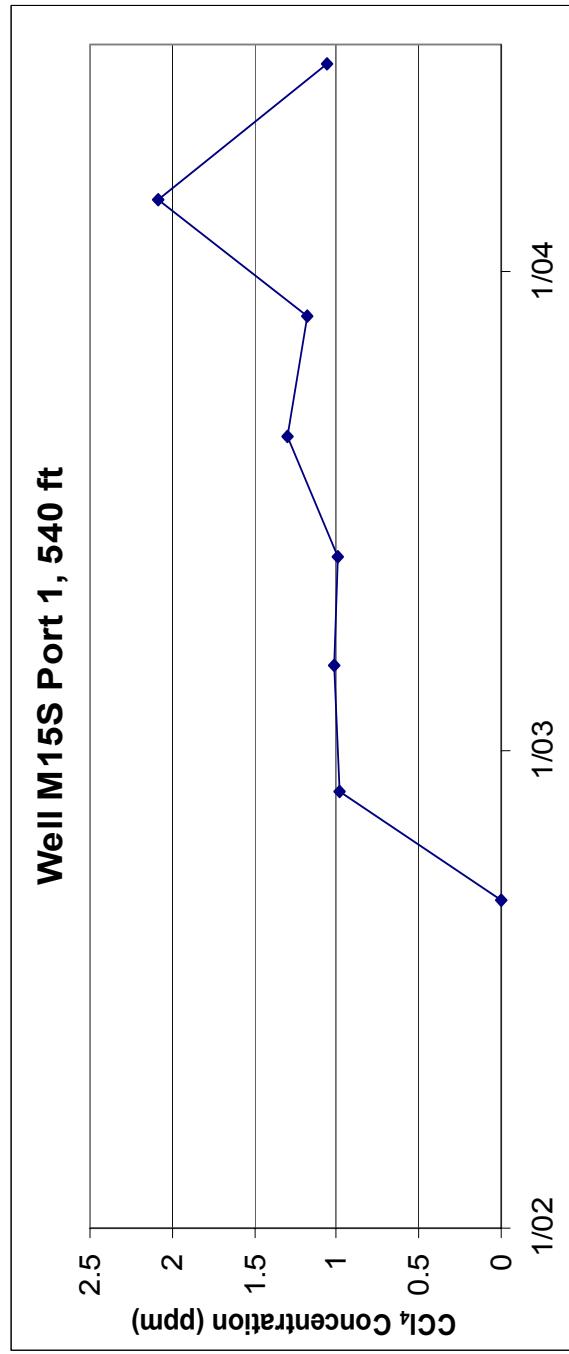


Figure 161. Carbon tetrachloride concentrations (ppmv) for Well Port M15S-1.

Table F-162. Monitoring data for Well M15S-2 from January through June 2004.

Well Port M15S-2	Inside Fence N	Frequency Q	Depth 302 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
3/2/04 11:50 AM	3/2/04 3:27 PM	1.37E+00	1.40E+00	3.11E-01	8.59E-01	3.06E+00	9.75E+03
6/14/04 2:00 PM	6/15/04 2:37 PM	2.89E+00	1.98E+00	4.04E-01	8.32E-01	2.51E+00	1.15E+04
6/14/04 2:00 PM	6/15/04 2:40 PM	2.96E+00	2.03E+00	4.03E-01	8.96E-01	2.50E+00	1.16E+04

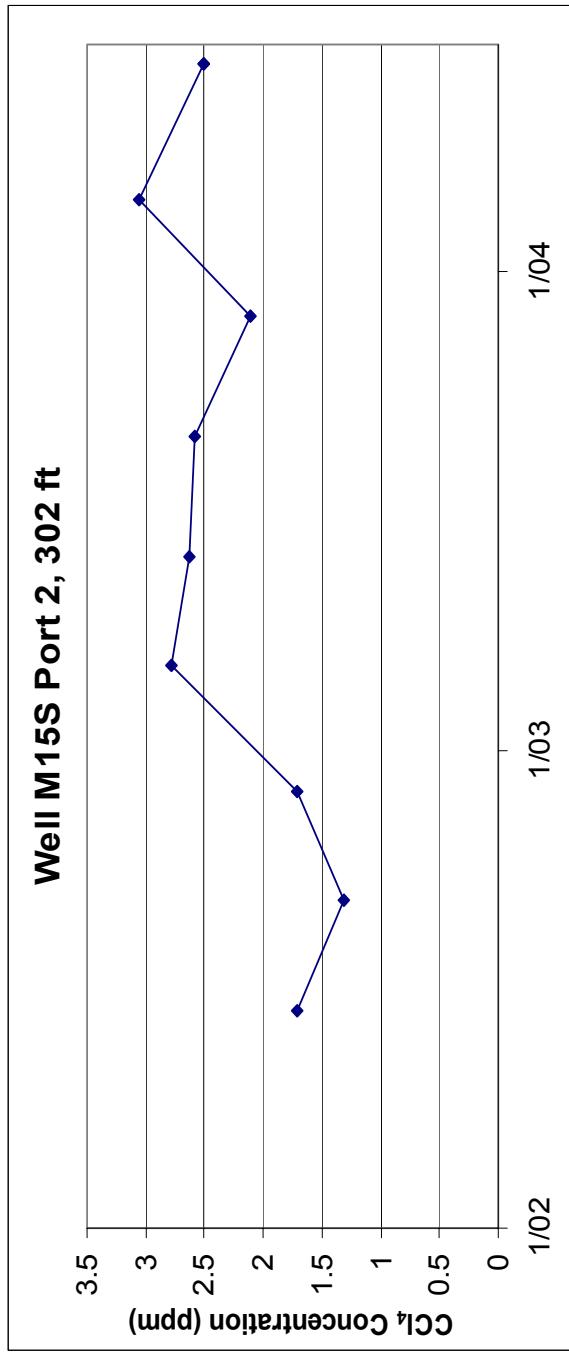


Figure 162. Carbon tetrachloride concentrations (ppmv) for Well Port M15S-2.

Table F-163. Monitoring data for Well M15S-3 from January through June 2004.

Well Port M15S-3	Inside Fence		Frequency Q	Depth 123 ft
	N			
			CHCl ₃ (ppmv)	TCA (ppmv)
Sample Date and Time	Analysis Date and Time		1.02E+00	1.10E+00
3/2/04 11:51 AM	3/2/04 3:30 PM		2.80E-01	6.23E-01
6/14/04 2:00 PM	6/15/04 2:43 PM	2.50E+00	1.48E+00	4.03E-01
			2.81E-01	1.29E+00
				1.17E+04
				1.03E+04
				2.28E+00
				1.04E+04

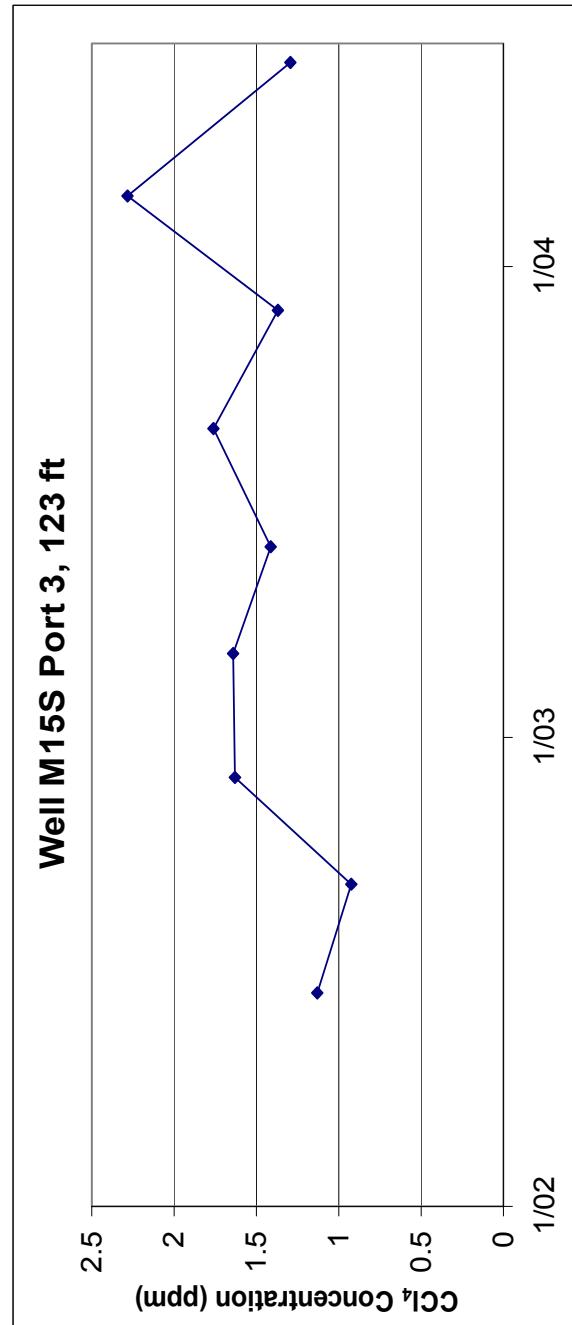


Figure 163. Carbon tetrachloride concentrations (ppmv) for Well Port M15S-3.

Table F-164. Monitoring data for Well M15S-4 from January through June 2004.

Well Port M15S-4	Inside Fence N	Frequency Q	Depth 103 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
3/2/04 11:52 AM	3/2/04 3:34 PM	9.74E-01	9.48E-01	2.23E-01	5.77E-01	1.64E+00	9.17E+03
3/2/04 11:52 AM	3/2/04 3:36 PM	1.01E+00	8.36E-01	2.08E-01	6.13E-01	1.72E+00	9.23E+03
3/2/04 11:52 AM	3/2/04 3:39 PM	1.29E+00	8.29E-01	2.24E-01	4.90E-01	1.65E+00	9.42E+03
6/14/04 2:00 PM	6/15/04 2:46 PM	2.28E+00	1.49E+00	3.47E-01	5.46E-01	9.01E-01	1.14E+04
6/14/04 2:00 PM	6/15/04 2:50 PM	2.45E+00	1.39E+00	2.97E-01	5.14E-01	8.23E-01	1.15E+04

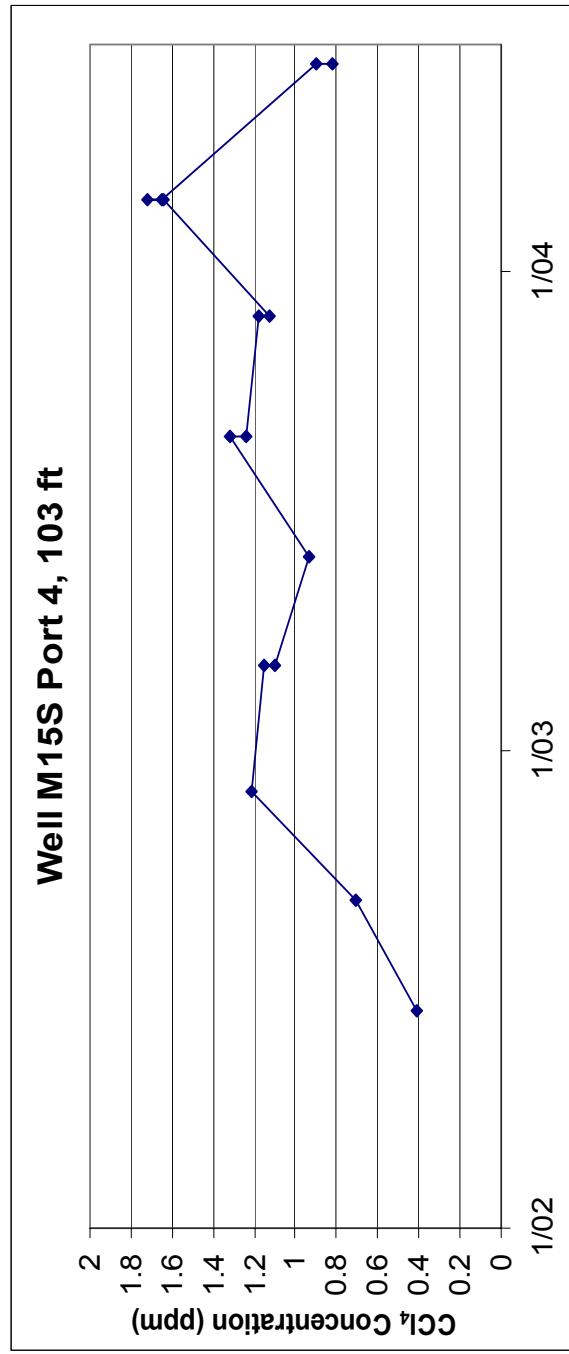


Figure 164. Carbon tetrachloride concentrations (ppmv) for Well Port M15S-4.

Table F-165. Monitoring data for Well M16S-1 from January through June 2004.

Well Port M16S-1	Inside Fence N	Frequency Q	Depth 548 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
3/2/04 7:49 AM	3/4/04 12:18 PM	1.41E+00	9.91E-01	5.93E-01	6.78E-01	1.68E+00	8.02E+03
6/14/04 2:30 PM	6/15/04 2:55 PM	2.23E+00	1.51E+00	2.80E-01	4.75E-01	8.59E-01	1.14E+04

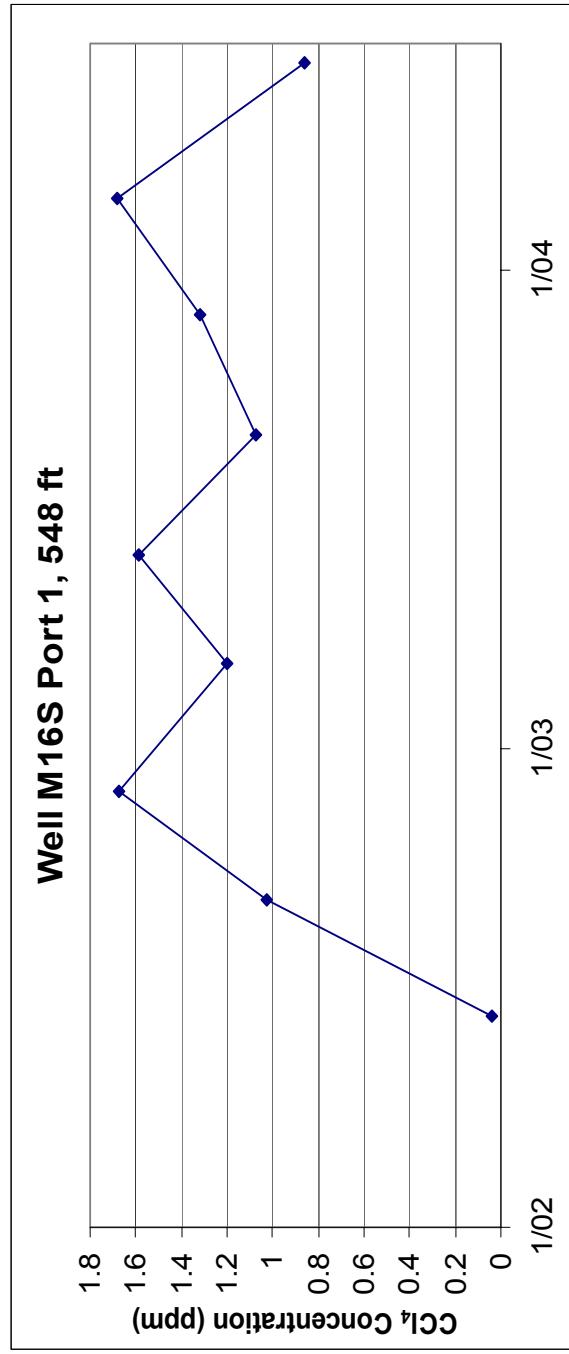


Figure 165. Carbon tetrachloride concentrations (ppmv) for Well Port M16S-1.

Table F-166. Monitoring data for Well M16S-2 from January through June 2004.

Well Port M16S-2	Inside Fence N	Frequency Q	Depth 295 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
3/2/04 7:50 AM	3/4/04 12:21 PM	1.83E+00	1.40E+00	6.30E-01	8.34E-01	3.01E+00	8.01E+03
6/14/04 2:30 PM	6/15/04 2:58 PM	2.93E+00	2.27E+00	4.14E-01	1.21E+00	3.39E+00	1.14E+04

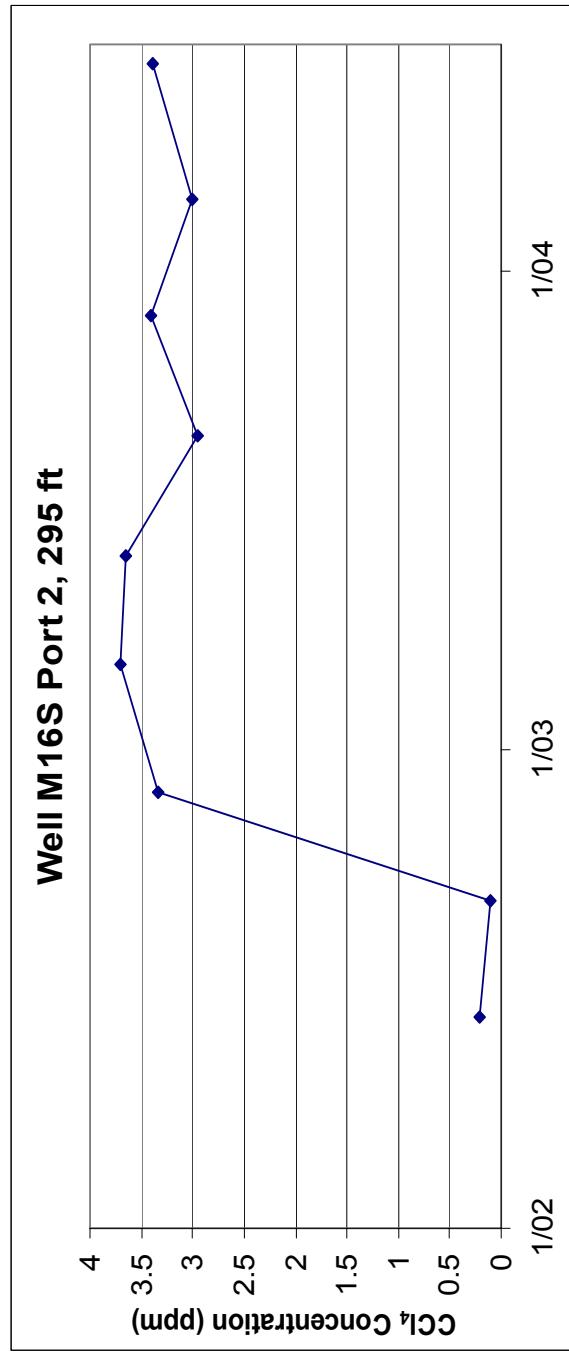


Figure 166. Carbon tetrachloride concentrations (ppmv) for Well Port M16S-2.

Table F-167. Monitoring data for Well M16S-3 from January through June 2004.

Well Port M16S-3	Inside Fence N	Frequency Q	Depth 197 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
3/2/04 7:51 AM	3/4/04 12:24 PM	1.61E+00	1.24E+00	4.86E-01	8.22E-01	2.53E+00	7.98E+03
6/14/04 2:30 PM	6/15/04 3:01 PM	2.90E+00	2.00E+00	4.12E-01	1.09E+00	3.16E+00	1.15E+04

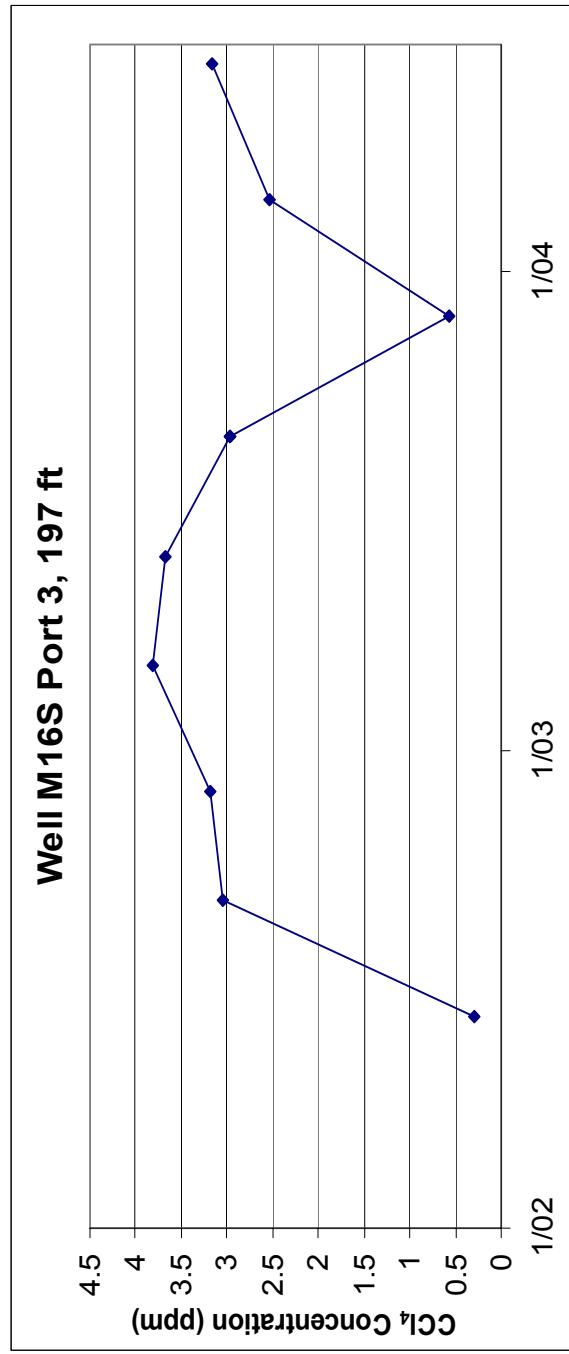


Figure 167. Carbon tetrachloride concentrations (ppmv) for Well Port M16S-3.

Table F-168. Monitoring data for Well M16S-4 from January through June 2004.

Well Port M16S-4	Inside Fence N	Frequency Q	Depth 101 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
3/2/04 7:52 AM	3/4/04 12:28 PM	1.65E+00	9.93E-01	3.22E-01	5.40E-01	1.87E+00	7.91E+03
3/2/04 7:52 AM	3/4/04 12:30 PM	1.79E+00	1.13E+00	3.72E-01	5.30E-01	1.97E+00	7.94E+03
6/14/04 2:30 PM	6/15/04 3:04 PM	2.94E+00	1.62E+00	2.72E-01	6.50E-01	1.74E+00	1.15E+04

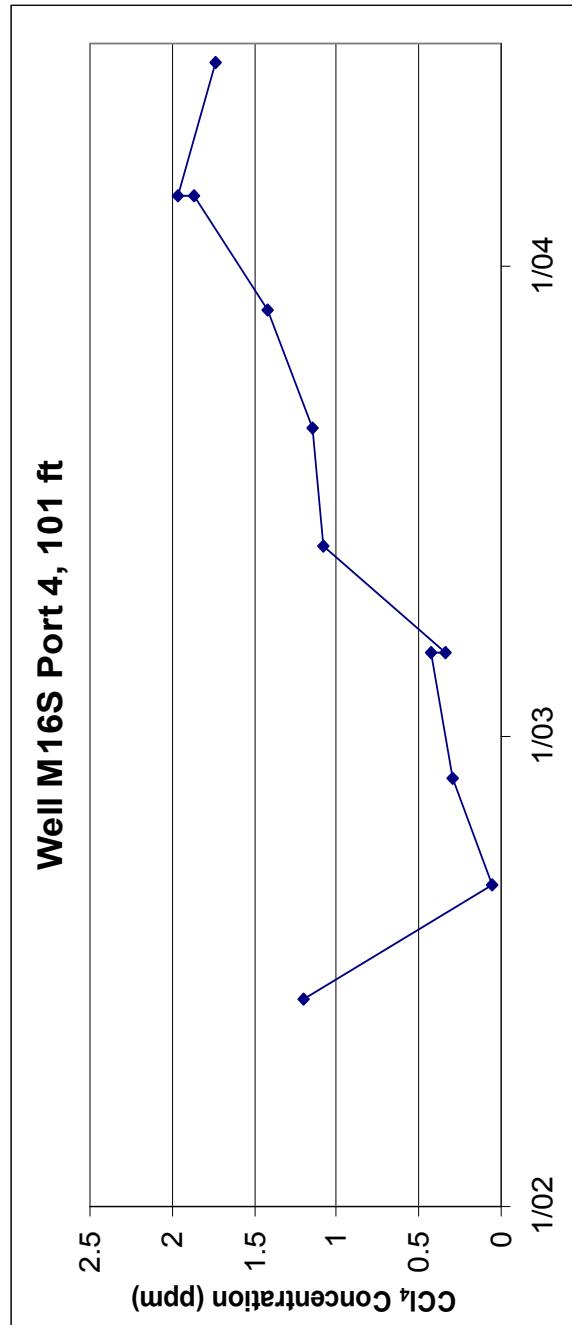


Figure 168. Carbon tetrachloride concentrations (ppmv) for Well Port M16S-4.

Table F-169. Monitoring data for Well OCVZ11-1 from January through June 2004.

Well Port OCVZ11-1	Inside Fence		Frequency Q	Depth 92 ft
	N			
			CHCl ₃ (ppmv)	TCA (ppmv)
Sample Date and Time	Analysis Date and Time		1.45E+00	8.36E-01
3/2/04 10:39 AM	3/2/04 5:24 PM		1.05E-01	1.48E-01
6/9/04 12:04 PM	6/10/04 2:51 PM	2.83E+00	1.54E+00	3.70E-01
				1.03E+00
				1.13E+00
				1.69E+04
				9.98E+03
				1.69E+04
				9.98E+03

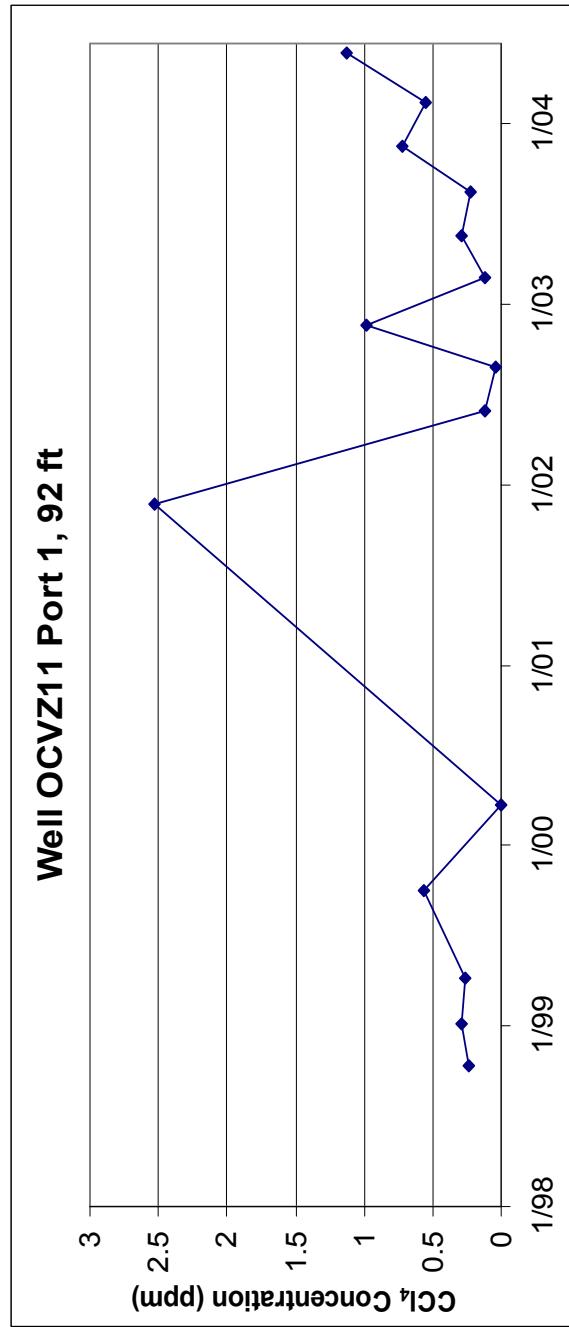


Figure 169. Carbon tetrachloride concentrations (ppmv) for Well Port OCVZ11-1.

Table F-170. Monitoring data for Well OCVZ13-1 from January through June 2004.

Well Port OCVZ13-1	Inside Fence N	Frequency Q	Depth 251 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
3/2/04 10:21 AM	3/2/04 5:54 PM	1.53E+00	9.34E-01	1.23E-01	3.50E-01	7.52E-01	9.63E+03
6/9/04 12:08 PM	6/10/04 2:57 PM	2.53E+00	1.32E+00	3.00E-01	4.72E-01	5.13E-01	1.68E+04

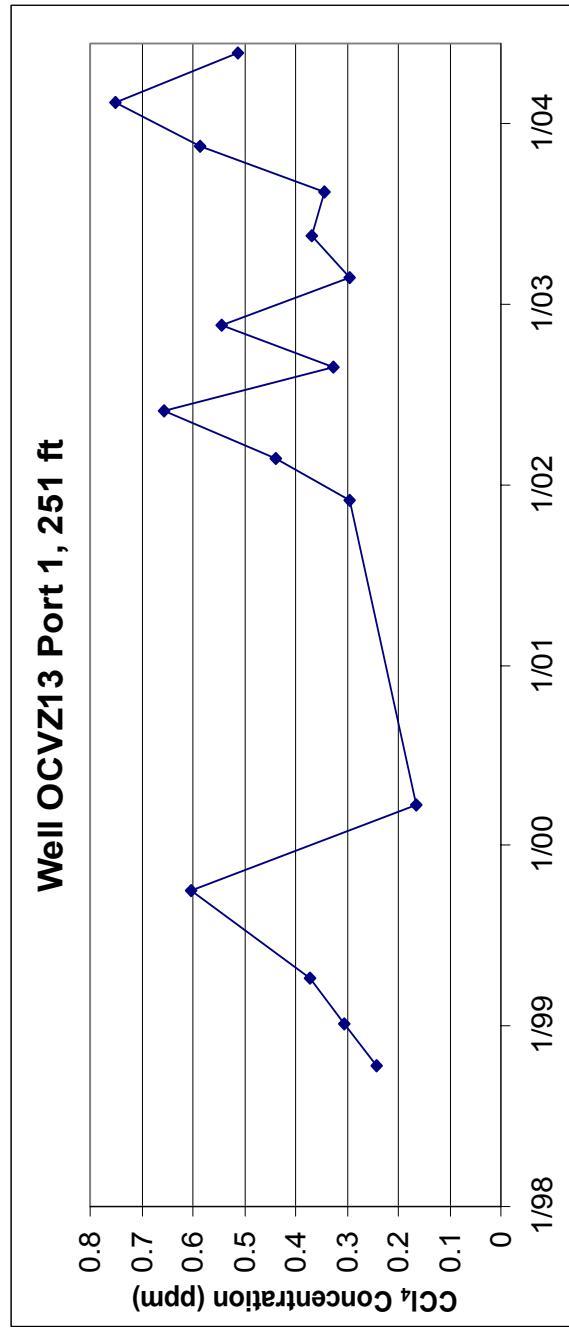


Figure 170. Carbon tetrachloride concentrations (ppmv) for Well Port OCVZ13-1.

Table F-171. Monitoring data for Well OCVZ13-2 from January through June 2004.

Sample Date and Time	Analysis Date and Time	Well Port OCVZ13-2		Inside Fence N		Frequency Q		Depth 221 ft	
		CHCl ₃	TCA	PCE	(ppmv)	TCE	(ppmv)	CCl ₄	(ppmv)
3/2/04 10:22 AM	3/4/04 12:12 PM	1.29E+00	8.93E-01	7.73E-01	1.23E+00	2.44E+00	8.22E+03		
6/9/04 12:10 PM	6/10/04 3:00 PM	2.47E+00	1.28E+00	2.56E-01	4.18E-01	4.48E-01	1.66E+04		

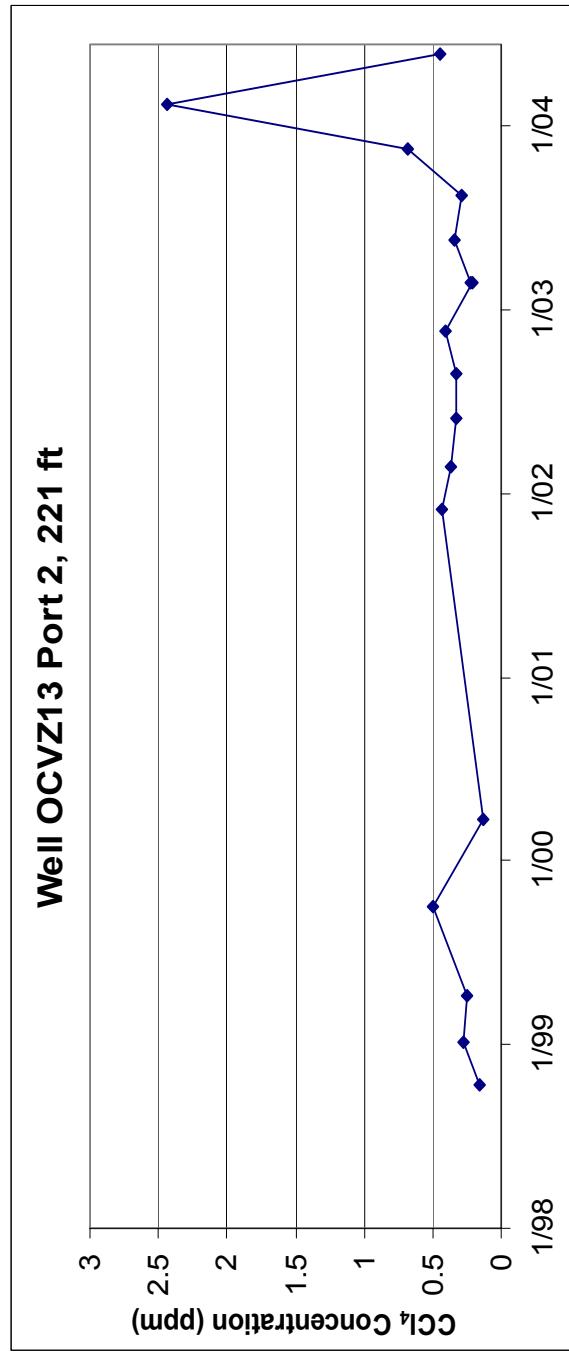


Figure 171. Carbon tetrachloride concentrations (ppmv) for Well Port OCVZ13-2.

Table F-172. Monitoring data for Well OCVZ13-3 from January through June 2004.

Well Port OCVZ13-3	Inside Fence		Frequency Q	Depth 91 ft
	N			
			CHCl ₃ (ppmv)	TCA (ppmv)
Sample Date and Time	Analysis Date and Time		1.24E+00	7.92E-01
3/2/04 10:23 AM	3/4/04 12:15 PM		5.87E-01	7.40E-01
6/9/04 12:12 PM	6/10/04 3:03 PM	2.56E+00	3.00E-01	4.23E-01
		1.32E+00		5.14E-01
				1.69E+04

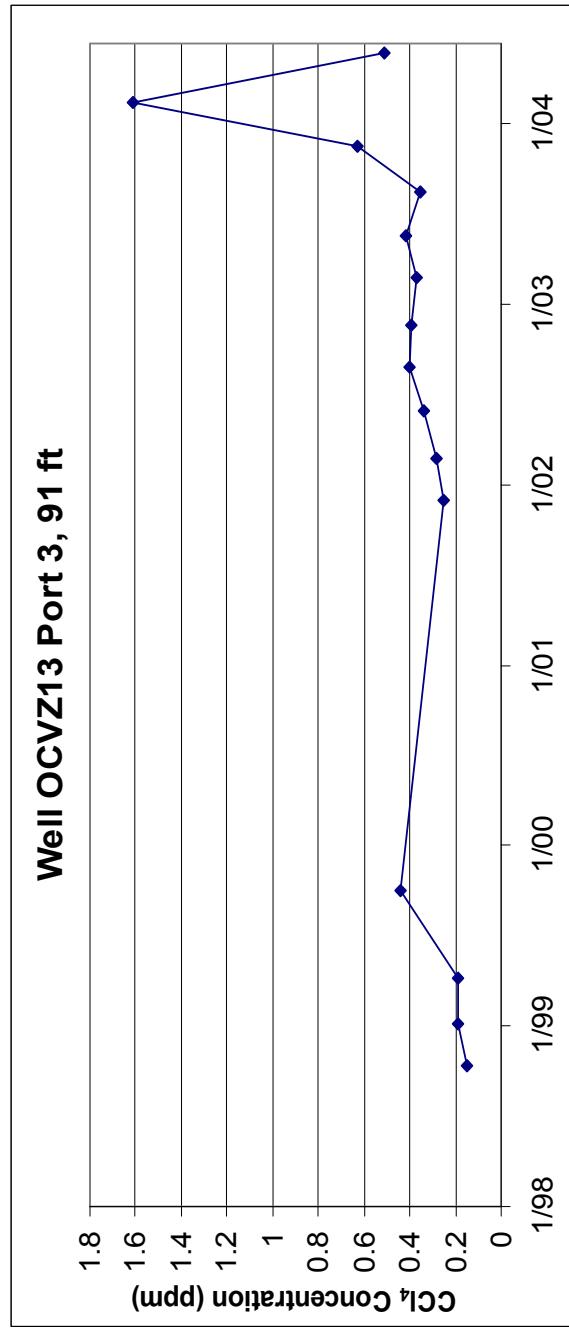


Figure F-172. Carbon tetrachloride concentrations (ppmv) for Well Port OCVZ13-3.

Table F-173. Monitoring data for Well OCVZ14-1 from January through June 2004.

Well Port OCVZ14-1	Inside Fence		Frequency Q	Depth 260 ft
	Well Port OCVZ14-1	N		
			CHCl ₃ (ppmv)	TCA (ppmv)
Sample Date and Time	Analysis Date and Time		1.30E+00	6.34E-01
3/2/04 9:52 AM	3/4/04 12:37 PM		3.01E-01	5.34E-01
3/2/04 9:52 AM	3/4/04 12:39 PM		3.28E-01	4.28E-01
6/9/04 12:01 PM	6/10/04 3:09 PM		1.05E+00	2.09E-01
			3.96E-01	3.43E-01
				1.69E+04
				H ₂ O (ppmv)

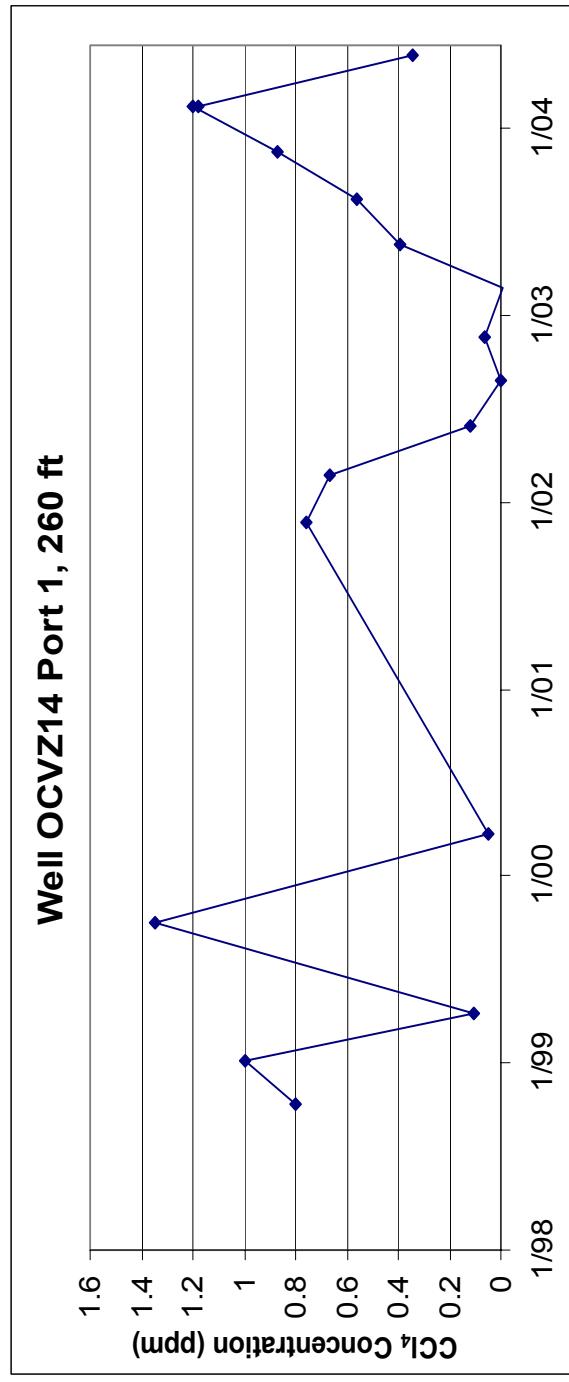


Figure 173. Carbon tetrachloride concentrations (ppmv) for Well Port OCVZ14-1.

Table F-174. Monitoring data for Well OCVZ14-2 from January through June 2004.

Well Port OCVZ14-2	Well Port		Inside Fence		Frequency Q	Depth 230 ft
	N	S	E	W		
			CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)
Sample Date and Time	Analysis Date and Time		1.61E+00	1.23E+00	4.83E-01	6.20E-01
3/2/04 9:53 AM	3/4/04 12:42 PM					1.98E+00
6/9/04 12:02 PM	6/10/04 3:13 PM		2.85E+00	2.02E+00	3.87E-01	7.36E-01
						2.44E+00
						1.69E+04

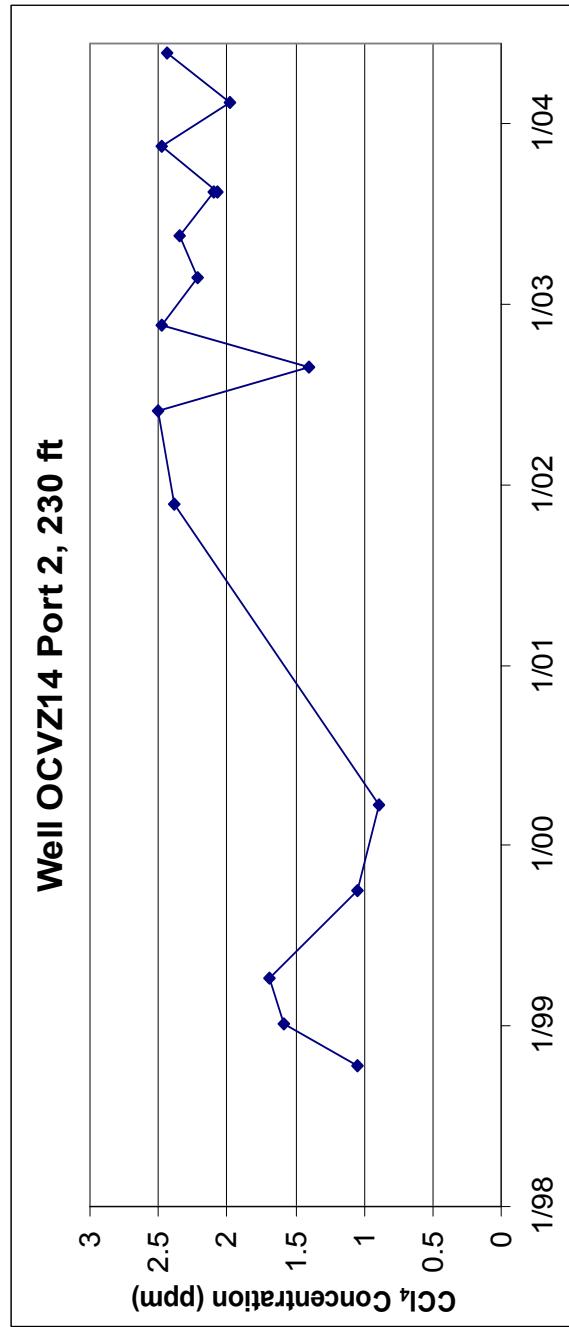


Figure F-174. Carbon tetrachloride concentrations (ppmv) for Well Port OCVZ14-2.

Table F-175. Monitoring data for Well OCVZ14-3 from January through June 2004.

Well Port OCVZ14-3	Inside Fence		Frequency Q	Depth 60 ft
	N			
			CHCl ₃ (ppmv)	TCA (ppmv)
Sample Date and Time	Analysis Date and Time		1.51E+00	9.24E-01
3/2/04 9:54 AM	3/4/04 12:45 PM		2.82E-01	5.12E-01
3/2/04 9:54 AM	3/4/04 12:48 PM		2.69E-01	3.47E-01
6/9/04 12:02 PM	6/10/04 3:15 PM		1.50E+00	2.34E-01
6/9/04 12:02 PM	6/10/04 3:18 PM		2.52E+00	1.47E+00
				PCE (ppmv)
				TCE (ppmv)
				CCl ₄ (ppmv)
				H ₂ O (ppmv)

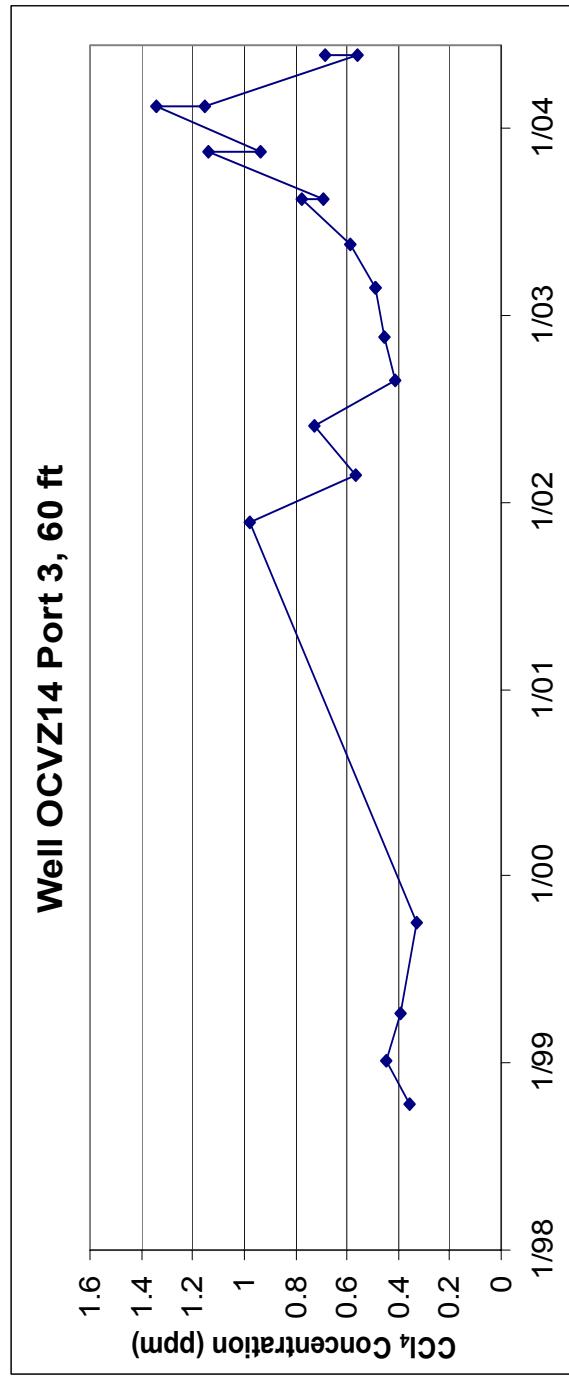


Figure 175. Carbon tetrachloride concentrations (ppmv) for Well Port OCVZ14-3.

Table F-176. Monitoring data for Well 1898-1 from January through June 2004.

Well Port 1898-1	Inside Fence N	Frequency M	Depth 283 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/12/04 10:50 AM	1/13/04 8:30 AM	5.28E+00	2.88E+00	2.90E+00	5.86E+00	1.61E+01	3.99E+03
2/2/04 9:29 AM	2/2/04 2:58 PM	1.81E+00	1.04E+00	3.52E-01	3.16E-01	9.87E-01	9.81E+03
4/8/04 9:27 AM	4/8/04 3:32 PM	2.57E+00	1.17E+00	1.96E-01	5.59E-01	1.77E+00	1.65E+04
5/3/04 9:55 AM	5/4/04 11:12 AM	2.93E+00	1.50E+00	3.90E-01	7.22E-01	2.45E+00	1.34E+04
6/14/04 3:20 PM	6/15/04 3:28 PM	3.47E+00	2.01E+00	3.87E-01	1.17E+01	3.27E+00	1.17E+04

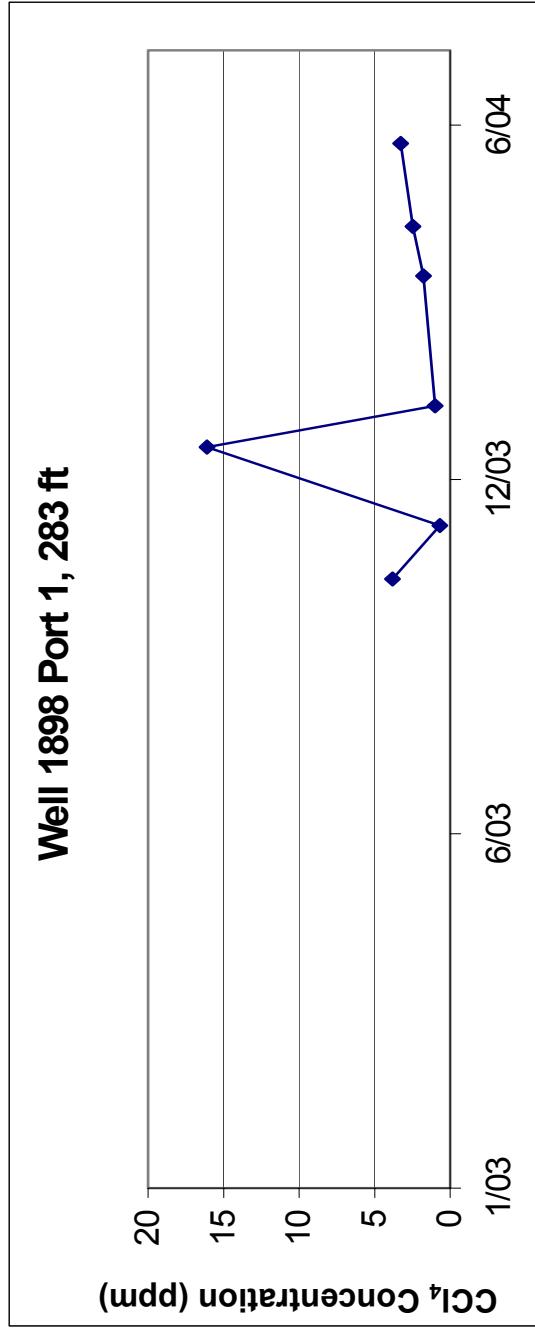


Figure 176. Carbon tetrachloride concentrations (ppmv) for Well Port 1898-1.

Table F-177. Monitoring data for Well 1898-2 from January through June 2004.

Well Port 1898-2	Inside Fence N	Frequency M	Depth 216 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/12/04 10:51 AM	1/13/04 8:33 AM	4.23E+00	2.68E+00	2.39E+00	4.87E+00	1.32E+01	4.02E+03
2/2/04 9:29 AM	2/2/04 3:00 PM	1.96E+00	1.19E+00	2.33E-01	6.85E-01	2.73E+00	6.39E+03
3/2/04 8:02 AM	3/2/04 4:03 PM	1.86E+00	1.21E+00	1.91E-01	7.33E-01	2.83E+00	9.14E+03
4/8/04 9:27 AM	4/8/04 3:35 PM	2.41E+00	1.03E+00	1.82E-01	5.42E-01	1.82E+00	1.61E+04
4/8/04 9:27 AM	4/8/04 3:38 PM	2.34E+00	1.07E+00	1.51E-01	5.78E-01	1.83E+00	1.61E+04
5/3/04 9:55 AM	5/4/04 11:15 AM	3.30E+00	1.66E+00	3.26E-01	1.03E+00	3.21E+00	1.29E+04

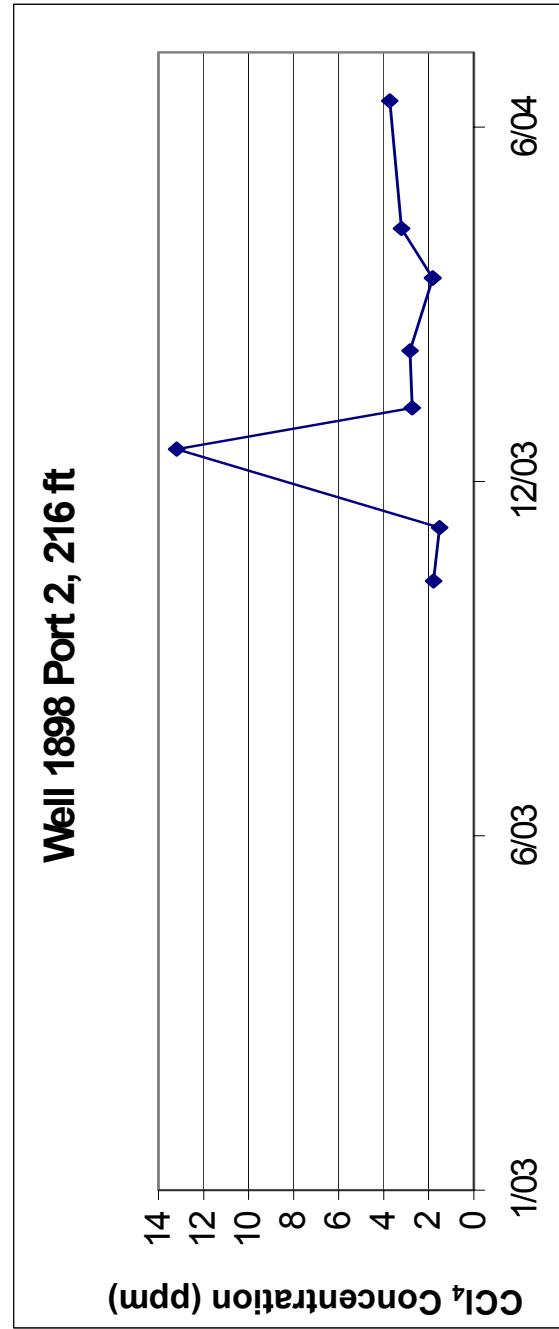


Figure 177. Carbon tetrachloride concentrations (ppmv) for Well Port 1898-2.

Table F-178. Monitoring data for Well 1898-3 from January through June 2004.

Well Port 1898-3	Inside Fence N	Frequency Q	Depth 95 ft				
Sample Date and Time	Analysis Date and Time	CHCl ₃ (ppmv)	TCA (ppmv)	PCE (ppmv)	TCE (ppmv)	CCl ₄ (ppmv)	H ₂ O (ppmv)
1/12/04 10:52 AM	1/13/04 8:36 AM	3.80E+00	2.80E+00	2.19E+00	4.48E+00	1.09E+01	4.14E+03
2/2/04 9:30 AM	2/2/04 3:03 PM	1.98E+00	1.79E+00	2.82E-01	9.62E-01	2.54E+00	7.00E+03
3/2/04 8:04 AM	3/2/04 4:06 PM	1.89E+00	1.82E+00	3.03E-01	9.04E-01	2.90E+00	9.26E+03
4/8/04 9:28 AM	4/8/04 3:41 PM	2.45E+00	1.50E+00	2.21E-01	6.78E-01	1.86E+00	1.62E+04
5/3/04 9:55 AM	5/4/04 11:18 AM	3.28E+00	2.08E+00	4.36E-01	9.57E-01	2.58E+00	1.30E+04
6/14/04 3:25 PM	6/15/04 3:31 PM	3.65E+00	1.83E+00	3.56E-01	1.28E+00	3.33E+00	1.17E+04

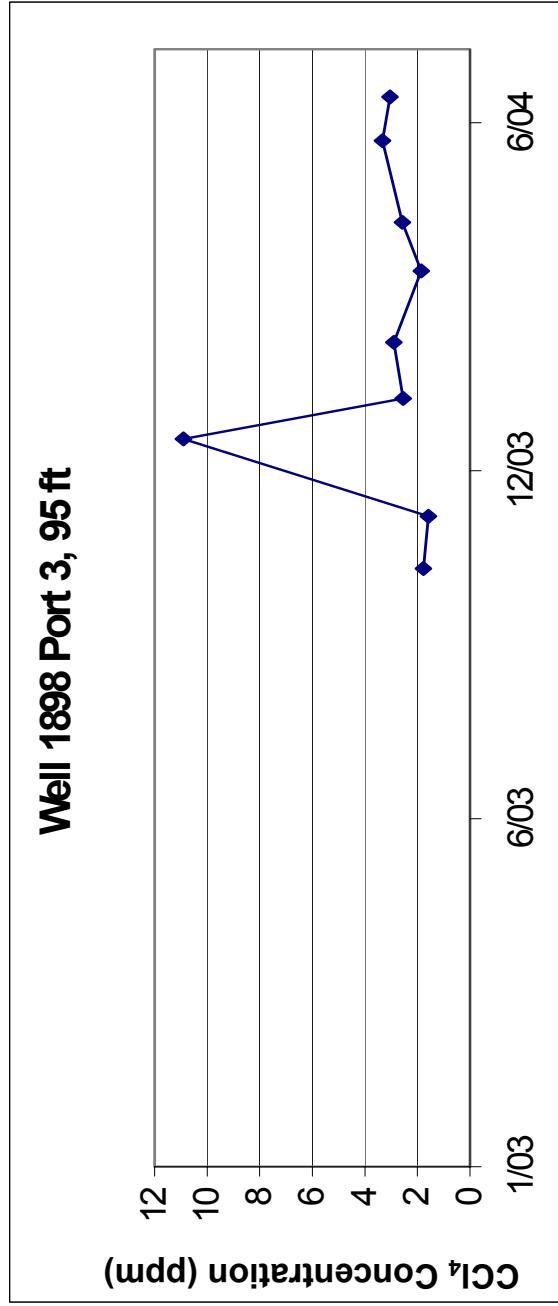


Figure 178. Carbon tetrachloride concentrations (ppmv) for Well Port 1898-3.